

BEFORE THE
INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE
TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
REGULAR MEETING

LOCATION: STANFORD UNIVERSITY
PAUL BERG HALL
LI KA SHING LEARNING CENTER
290 CAMPUS DRIVE
STANFORD, CALIFORNIA

DATE: THURSDAY, AUGUST 25, 2011
9 A.M.

REPORTER: BETH C. DRAIN, CSR
CSR. NO. 7152

BRS FILE NO.: 89090

BARRISTERS' REPORTING SERVICE

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16. PUBLIC COMMENT. NONE

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1 STANFORD, CALIFORNIA; THURSDAY, AUGUST 25, 2011

2 9 A.M.

3
4 CHAIRMAN THOMAS: CAN EVERYBODY TAKE THEIR
5 SEAT, PLEASE?

6 MEMBERS OF THE BOARD, STAFF, MEMBERS OF
7 THE PUBLIC, WOULD LIKE TO WELCOME YOU TO THE
8 BEAUTIFUL STANFORD CAMPUS AND CALL TO ORDER THE
9 AUGUST 25TH MEETING OF THE ICOC. I'D LIKE TO THANK,
10 BEFORE WE GET STARTED HERE, JENNIFER PRYNE, DOUG
11 GUILLEN, AND MELISSA KING, AS ALWAYS, FOR SETTING UP
12 THE MEETING HERE SO THAT WE CAN HOLD IT IN A
13 SEAMLESS AND PROFESSIONAL MANNER. SO THANK YOU VERY
14 MUCH TO ALL OF YOU FOR YOUR HARD WORK.

15 MELISSA, WOULD YOU LEAD US IN THE PLEDGE
16 OF ALLEGIANCE FOLLOWED BY ROLL CALL.

17 (THE PLEDGE OF ALLEGIANCE.)

18 MS. KING: ROBERT BIRGENEAU. FLOYD BLOOM.
19 GARY FIRESTEIN FOR DAVID BRENNER.

20 DR. FIRESTEIN: HERE.

21 MS. KING: SUSAN BRYANT.

22 DR. BRYANT: HERE.

23 MS. KING: MARCY FEIT. MICHAEL FRIEDMAN.
24 LEEZA GIBBONS.

25 MS. GIBBONS: HERE.

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1 MS. KING: MICHAEL GOLDBERG.
2 MR. GOLDBERG: HERE.
3 MS. KING: SAM HAWGOOD.
4 DR. HAWGOOD: HERE.
5 MS. KING: STEPHEN JUELSGAARD.
6 DR. JUELSGAARD: HERE.
7 MS. KING: SHERRY LANSING.
8 MS. LANSING: HERE.
9 MS. KING: TED LOVE.
10 DR. LOVE: HERE.
11 MS. KING: BERTRAM LUBIN. LEON FINE FOR
12 SHLOMO MELMED.
13 DR. FINE: HERE.
14 MS. KING: PHIL PIZZO.
15 DR. PIZZO: HERE.
16 MS. KING: CLAIRE POMEROY.
17 DR. POMEROY: HERE.
18 MS. KING: FRANCISCO PRIETO.
19 DR. PRIETO: HERE.
20 MS. KING: ELIZABETH FINI FOR CARMEN
21 PULIAFITO.
22 DR. FINI: HERE.
23 MS. KING: ROBERT QUINT. DUANE ROTH.
24 MR. ROTH: HERE.
25 MS. KING: JOAN SAMUELSON. DAVID

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1 SERRANO-SEWELL. JEFF SHEEHY.

2 MR. SHEEHY: HERE.

3 MS. KING: JONATHAN SHESTACK. OSWALD

4 STEWARD.

5 DR. STEWARD: HERE.

6 MS. KING: ART TORRES.

7 MR. TORRES: HERE.

8 MS. KING: KRISTINA VUORI.

9 DR. VUORI: HERE.

10 MS. KING: JAMES ECONOMOU FOR EUGENE

11 WASHINGTON.

12 DR. ECONOMOU: HERE.

13 MS. KING: JON THOMAS.

14 CHAIRMAN THOMAS: YES, I'M HERE TOO.

15 AS USUAL, BY THE WAY, FOR MEMBERS OF THE
16 PUBLIC, WE ARE HAVING A SIMULTANEOUS WEBCAST OR, AS
17 CHICK HEARN USED TO SAY, A SIMULCAST SO THAT THE
18 PUBLIC ALL AROUND THE WORLD AND VIA THE INTERNET CAN
19 SHARE IN THESE PROCEEDINGS.

20 WOULD LIKE TO WELCOME DRS. FINE AND
21 FIRESTEIN TO THEIR FIRST MEETING. WELCOME. WE JUST
22 HAD AN OFFICIAL SWEARING IN CEREMONY OVER THERE.
23 AND DELIGHTED TO HAVE YOU HERE ALONG WITH THE REST
24 OF THE BOARD.

25 BEGIN HERE WITH A CHAIR REPORT, WHICH WILL

BARRISTERS' REPORTING SERVICE

1 BE SHORT, BUT A LITTLE LONGER THAN NORMAL AS THIS IS
2 MY FIRST MEETING AS CHAIR JUST TO GIVE YOU A REPORT
3 OF WHAT'S BEEN GOING ON. WE ENTERED THIS LAST
4 COUPLE OF MONTHS WHEN I BEGAN MY TENURE IN AN
5 ATMOSPHERE OF CONSIDERABLE FISCAL CRISIS AT THE
6 STATE. IT'S SORT OF AN ERA OF AUSTERITY AND BELT
7 CUTTING AND INCREASED SCRUTINY.

8 I HAVE COME IN PLEDGING TO REVIEW TOP TO
9 BOTTOM ALL ASPECTS OF THE AGENCY AND ALL OF ITS
10 FINANCIAL AND STRUCTURAL FACETS. AND HAVE, AS YOU
11 MAY HAVE HEARD, ONE OF THE ISSUES THE GOVERNOR HAS
12 BEEN VERY CONCERNED ABOUT ACROSS ALL OF HIS AGENCIES
13 IS THE TRAVEL BUDGET. WE UNDERSTAND FROM HIM THAT
14 HE'S REQUESTING ALL AGENCIES TO TAKE AT LEAST 50
15 PERCENT OUT OF THOSE BUDGETS AS A WAY OF CUTTING
16 DOWN ON OVERHEAD. AND I, HEARING THAT, IMMEDIATELY
17 SENT A MEMO TO ALL BOARD MEMBERS WHICH ANNOUNCED
18 THAT THE OFFICE OF THE CHAIR IS GOING TO BE CUTTING
19 BACK ON TRAVEL COSTS AT LEAST 50 PERCENT FOR THIS
20 UPCOMING YEAR, 50 PERCENT FROM WHAT WE BUDGETED.

21 AND HAVE ASKED MICHAEL GOLDBERG TO TALK TO
22 ALAN TO DISCUSS HOW THE REST OF THE AGENCY CAN COME
23 IN LINE WITH THAT POLICY. SO THAT'S JUST THE FIRST
24 OF A NUMBER OF WAYS THAT WE'RE GOING TO BE BELT
25 TIGHTENING HERE AT THE AGENCY TO DO OUR PART AT THIS

BARRISTERS' REPORTING SERVICE

1 TIME OF CONCERN FOR STATE GOVERNMENT IN GENERAL.

2 IN TERMS OF WHAT I HAVE BEEN DOING
3 PERSONALLY, SPENT A LOT OF TIME FAMILIARIZING MYSELF
4 WITH ALL ASPECTS OF THE AGENCY. REALLY GOT UP TO
5 SPEED ON ALL OF THE WONDERFUL THINGS THAT HAVE
6 TRANSPIRED OVER THE FIRST SIX AND A HALF YEARS SO AS
7 TO SET THE STAGE FOR BEING ABLE TO DIRECT THE NEXT
8 PHASE GOING FORWARD.

9 SPENT A LOT OF TIME WITH THE STAFF BOTH IN
10 MY OFFICE AND WITH THE SCIENCE STAFF, A LOT OF TIME
11 GETTING UP TO SPEED WITH THE PORTFOLIO OF ALL OF OUR
12 PROJECTS WITH PROGRESS REPORTS ON HOW THOSE PROJECTS
13 ARE GOING. SPENT A GREAT DEAL OF TIME WITH THE
14 INDIVIDUAL BOARD MEMBERS TO LEARN MORE ABOUT WHAT IS
15 IMPORTANT TO THEM AND WHAT ARE THE MAJOR ISSUES,
16 CHALLENGES, AND OPPORTUNITIES AT THEIR
17 REPRESENTATIVE INSTITUTIONS.

18 I HAD THE PLEASURE OF STARTING WHAT WILL
19 BE A SERIES OF TOURS AROUND ALL OF OUR CONSTRUCTED
20 FACILITIES THUS FAR, HAVING GONE TO USC, UCSF, AND
21 YESTERDAY TO STANFORD'S FACILITY TO GET FULL TOURS
22 TO HEAR ALL THE VERY EXCITING THINGS THAT ARE GOING
23 ON THERE. I WILL SAY TO DR. PIZZO, WITH RESPECT TO
24 STANFORD, THAT I COMMEND ANYBODY WHO'S NEVER HAD AN
25 AIR SHOWER TO ENTER INTO AN AREA WHERE THEY WANT NO

BARRISTERS' REPORTING SERVICE

1 CONTAMINATION. IT'S QUITE THE EXPERIENCE WHICH WE
2 HAD YESTERDAY AND JUST A WONDERFUL TOUR.

3 I HAVE, IN ADDITION, IN THE COURSE OF
4 THESE TOURS, AND THIS SORT OF GETS TO OUR CORE
5 MISSION, MET WITH NUMEROUS OF THE INVESTIGATORS WHO
6 ARE DOING THE FANTASTIC WORK THAT WE ARE FUNDING.
7 AS WE'VE KNOWN FOR MANY YEARS, THESE PEOPLE WERE
8 ADRIFT EARLIER IN THE DECADE BEFORE PROP 71 CAME
9 ALONG AND ENABLED THEM TO GO OUT AND DO STEM CELL
10 RESEARCH IN A COORDINATED AND COMPREHENSIVE WAY.
11 THERE IS A TRUE PALPABLE SENSE OF EXTREME ENTHUSIASM
12 AMONGST THESE SCIENTISTS AND A DECIDED MEASURE OF
13 GRATITUDE TO CIRM FOR THE ROLE IT'S DOING IN
14 ENABLING THEIR WORK.

15 SO IT WAS -- EVERY TIME YOU MEET WITH ANY
16 OF THEM, YOU COME AWAY FEELING LIKE WE'RE DOING
17 GREAT WORK HERE. AND I WANTED JUST TO UPDATE THE
18 BOARD AND LET THEM KNOW THAT THE SENSE OF ENTHUSIASM
19 NOT ONLY ISN'T DIMINISHING, BUT IS INCREASING AS THE
20 PROJECTS GET FURTHER DOWN THE LINE.

21 WE TALKED ABOUT WHEN I WAS ELECTED A
22 COUPLE OF MONTHS AGO I HAD A NUMBER OF PRIORITIES.
23 I'VE SPENT A LOT OF TIME DEALING WITH THOSE.
24 OBVIOUSLY FIRST AND FOREMOST WERE FINANCIAL MATTERS,
25 MAKING SURE THAT CIRM'S FUNDING IS PRESERVED GOING

BARRISTERS' REPORTING SERVICE

1 FORWARD AT THIS TIME, WHICH IS A TRICKY TIME AT
2 STATE GOVERNMENT. I HAVE EXTENSIVELY BEEN DEALING
3 WITH THE GOVERNOR AND TREASURER'S OFFICE TOWARDS
4 DEVELOPING THE PLAN FOR CIRM'S FUNDING IN THE
5 UPCOMING MONTHS AND HAVE BEEN VERY HAPPY WITH THE
6 WAY THOSE DISCUSSIONS ARE GOING. THEY ARE WORKS IN
7 PROGRESS AT THIS POINT. WE'LL BRING BACK TO YOU THE
8 FULL DETAILS WHEN ALL IS SAID AND DONE.

9 INTERNALLY WE ARE GOING TO BE HAVING ON
10 TODAY'S AGENDA A JOB DESCRIPTION FOR A CHIEF
11 FINANCIAL OFFICER, WHICH WE ARE GOING TO BRING IN TO
12 OVERSEE ALL OF THE INTERNAL AND EXTERNAL FINANCES OF
13 THE ORGANIZATION. BE VERY HAPPY, IF WE APPROVE THAT
14 DESCRIPTION AT THE BOARD MEETING TODAY, TO POST THAT
15 JOB DESCRIPTION AND GET GOING ON FINDING THE RIGHT
16 PERSON FOR THAT SLOT.

17 COMMUNICATIONS WE ALSO IDENTIFIED AS A
18 MAJOR PRIORITY. WE'VE UNDERTAKEN A DE FACTO
19 COMMUNICATIONS AUDIT OF WHAT WE'VE DONE IN THE PAST
20 AND HAVE SET ABOUT DEVELOPING A STRATEGIC PLAN FOR
21 COMPREHENSIVE AND ROBUST COMMUNICATIONS POLICY GOING
22 FORWARD. WE ARE IN THE PROCESS RIGHT NOW OF
23 IDENTIFYING CANDIDATES TO FILL THE POSITION OF
24 DIRECTOR OF COMMUNICATIONS, WHO WILL OVERSEE THAT
25 EFFORT AND WILL REPORT TO SENATOR TORRES AS CHAIR OF

BARRISTERS' REPORTING SERVICE

1 THE COMMUNICATIONS SUBCOMMITTEE.

2 PART AND PARCEL OF ANY COMMUNICATIONS
3 EFFORT ARE THE PATIENT ADVOCATES, WHO I'VE MADE IT A
4 PRIORITY TO EXAMINE THEIR ROLE HERE AND TO EXPAND IT
5 AS, AFTER ALL, THEY ARE OUR GREATEST SPOKESPEOPLE
6 AND ARE RESPONSIBLE FOR THE VERY GOOD WILL THAT ALL
7 OF THIS WORK ENGENDERS. BECAUSE THEY'RE VERY
8 IMPORTANT AND BECAUSE ANY COMMUNICATIONS POLICY BY
9 DEFINITION REQUIRES A LOT OF COORDINATION AND HELP
10 FROM THE PATIENT ADVOCATES, THE ACTUAL POSITION THAT
11 WE ARE CREATING AND LOOKING TO FILL IS, FULL TITLE
12 IS GOING TO BE DIRECTOR OF COMMUNICATIONS AND
13 PATIENT ADVOCATE OUTREACH. SO WE WILL BE
14 APPROACHING ALL OF THIS IN A VERY COORDINATED
15 FASHION.

16 WE'VE MADE A LOT OF STRIDES. THERE HAVE
17 BEEN A LOT OF CONCERNS VOICED ABOUT HAVING SORT OF
18 TWO SETS OF GOVERNANCE IN-HOUSE AT CIRM. ALAN AND
19 I, I THINK, HAVE MADE GREAT PROGRESS IN SORT OF
20 UNIFYING THE ENTIRE TEAM. WE HAVE STARTED UP AGAIN
21 AN EXECUTIVE COMMITTEE WEEKLY MEETING WHERE MEMBERS
22 OF THE SENIOR STAFF FROM BOTH THE OFFICE OF THE
23 CHAIR AND THE PRESIDENT'S OFFICE MEET TO DISCUSS THE
24 ISSUES OF THE DAY, WHICH I CAN ASSURE YOU THERE ARE
25 NO SHORTAGE OF. WE HAVE YET TO FINISH EARLY ON ANY

BARRISTERS' REPORTING SERVICE

1 OF THESE MEETINGS, BUT IT'S A GREAT WAY OF HAVING
2 THOROUGH COMMUNICATION AND COOPERATION BETWEEN
3 EVERYBODY IN THE OFFICE, WHICH I THINK IS A VERY
4 HEALTHY THING. AND WE LOOK FORWARD TO MORE OF THE
5 SAME.

6 FROM A STRUCTURAL POINT OF VIEW, WE HAVE
7 NEW MEMBERS WHO ARE HERE. WE'VE GONE ABOUT
8 IDENTIFYING SUBCOMMITTEES AT CIRM THAT THEY WOULD
9 LIKE TO SERVE ON AND HAVE PLACED THEM WHERE THEY
10 WOULD LIKE, WHICH HAS BEEN VERY HELPFUL. AND IT'S
11 GREAT TO SEE THAT THEY ARE VERY ENTHUSIASTIC ABOUT
12 THOSE PARTICULAR ROLES THAT THEY ARE ASSUMING.

13 ON THE THEME OF SUBCOMMITTEES, ANOTHER ONE
14 OF THE MAJOR PRIORITIES THAT I HAD, WHICH WE'VE
15 TALKED ABOUT, AGAIN, AT GREAT DETAIL, IS THE
16 INCREASED INVOLVEMENT OF INDUSTRY IN THE CIRM
17 PROGRAMS GOING FORWARD. BECAUSE THAT IS A MAJOR
18 PRIORITY, WE'VE ELEVATED THAT, LIKEWISE, TO
19 SUBCOMMITTEE STATUS. YOU WILL RECALL AT THE LAST
20 BOARD MEETING CHAIRMAN KLEIN CREATED THE
21 INTELLECTUAL PROPERTY SUBCOMMITTEE GIVEN THAT THERE
22 ARE SO MANY ISSUES IN THAT FIELD THAT REQUIRE
23 IMMEDIATE ATTENTION.

24 BECAUSE OF THE INTERTWINED NATURE OF
25 INDUSTRY CONCERNS AND INTELLECTUAL PROPERTY

BARRISTERS' REPORTING SERVICE

1 CONCERNS, WE HAVE JOINED THE TWO TOGETHER ON ONE
2 SUBCOMMITTEE WHICH WILL NOW BE THE INTELLECTUAL
3 PROPERTY AND INDUSTRY SUBCOMMITTEE, CO-CHAIRLED BY
4 STEPHEN JUELSGAARD AND DUANE ROTH. STEVE WILL BE
5 THE CHAIR WITH RESPECT TO INTELLECTUAL PROPERTY
6 MATTERS, DUANE WITH RESPECT TO INDUSTRY MATTERS.
7 BOTH CHAIRS CHOSEN BECAUSE THEY HAVE EXTENSIVE AND
8 LONG-STANDING EXPERIENCE WHICH IS INVALUABLE IN WHAT
9 THEY BRING TO THE TABLE FOR THOSE COMMITTEES.

10 SO I THINK ON THE PERSONNEL FRONT, WE'LL
11 GET TO THIS MORE LATER ON, BUT AS MANY OF YOU KNOW,
12 OUR LONG-STANDING, TIRELESS, INVALUABLE COHORT
13 MELISSA IS HEADED OFF TO STANFORD BUSINESS SCHOOL IN
14 THE TWO SHORT COMING WEEKS. AND OBVIOUSLY THAT IS A
15 CRITICAL POSITION. WE'LL HAVE MUCH MORE COMMENT ON
16 MELISSA LATER, SO I DON'T WANT TO GET INTO THAT TOO
17 MUCH NOW OTHER THAN TO SAY THAT AFTER AN EXTENSIVE
18 SEARCH, WE HAVE IDENTIFIED HER SUCCESSOR, WHOM I'D
19 LIKE TO INTRODUCE TO ALL OF YOU TODAY, WHICH IS
20 MARIA BONNEVILLE. IF YOU COULD STAND AND SAY HELLO.

21 (APPLAUSE.)

22 CHAIRMAN THOMAS: MARIA STARTS NEXT WEEK,
23 AND WE'RE DELIGHTED. AS I SAID TWO MONTHS AGO, IT'S
24 AN IMPOSSIBLE TASK TO FOLLOW BOB. IT'S A SIMILARLY
25 IMPOSSIBLE TASK TO FOLLOW MELISSA, BUT I AND MARIA

BARRISTERS' REPORTING SERVICE

1 ARE GOING TO DO OUR BEST TO DO JUST THAT IN OUR
2 EFFORT AS WE MARCH ON HERE TO THE NEXT PHASE OF CIRM
3 BUSINESS.

4 SO THAT IS MY CHAIRMAN'S REPORT. I CAN
5 REPORT TO YOU THAT I AM DELIGHTED TO BE HERE, TO BE
6 WORKING WITH ALL OF YOU. WE'RE DOING WONDERFUL,
7 WONDERFUL WORK. AND I COME TO WORK EVERY DAY JUST
8 TOTALLY ENERGIZED AND LOOKING FORWARD TO WHAT WE CAN
9 DO NEXT. SO I WANT TO THANK YOU AGAIN FOR THE
10 OPPORTUNITY TO SERVE HERE.

11 WITH THAT, I WOULD LIKE TO TURN IT OVER TO
12 PRESIDENT TROUNSON FOR THE PRESIDENT'S REPORT.

13 DR. TROUNSON: THANK YOU VERY MUCH, CHAIR.
14 AND IT'S VERY NICE TO BE AGAIN AT THE FIRST MEETING
15 THAT THE NEW CHAIR IS OVERSEEING. SO I HAVEN'T
16 REALLY CHANGED THE FORMAT IN WHICH I'M GOING TO
17 REPORT TO YOU BECAUSE I REALLY DO GET QUITE A LOT OF
18 SUPPORT IN AT LEAST IDENTIFYING SEVERAL OF WHAT I
19 THINK ARE THE KEY PAPERS THAT ARE COMING THROUGH.

20 ALSO WE DO THIS ON A MONTHLY BASIS. SO I
21 HOPE YOU GET THE REPORTS THAT I SEND OUT TO
22 EVERYBODY SO YOU GET A BIT OF AN INCREASED FLAVOR OF
23 SOME MORE OF THE PAPERS THAT WE FIND.

24 IN THIS PARTICULAR PAPER, WHICH WAS ONE OF
25 THE PAPERS OUT OF THE UCLA LAB OF ROBB MACLELLAN,

BARRISTERS' REPORTING SERVICE

1 YOU WILL POSSIBLY RECALL THAT SOME AMPHIBIA AND
2 TELEOST FISH CAN REGENERATE INJURED AND REMOVED
3 HEART TISSUE. YOU CAN TAKE PART OF THE VENTRICLES
4 OUT OF A FISH HEART, ZEBRAFISH HEART, AND THEY WILL
5 REGENERATE THE REMAINDER OF THE HEART BACK TO THE
6 ORIGINAL SIZE. IT'S THOUGHT THAT THAT'S HAPPENING
7 REALLY BY DEDIFFERENTIATION AND PROLIFERATION.

8 WHY CAN'T THAT HAPPEN IN MAMMALS? WHY
9 CAN'T WE REGENERATE PART OF OUR VENTRICLES THAT HAVE
10 BEEN DAMAGED THROUGH HEART ATTACK? WELL, IT SEEMS
11 THAT THE HEART MUSCLE EXITS THE CELL CYCLE. THE
12 CELL CYCLE ALLOWS THE CELLS TO PROLIFERATE, TO
13 MULTIPLY, BUT HEART MUSCLE EXITS THAT CELL CYCLE AND
14 IS STABLY SILENCED BY THE E2F GENES THROUGH
15 HETEROCHROMATIN. AND THIS SILENCES THE GENES, AND
16 THIS HETEROCHROMATIN THAT IS RESPONSIBLE FOR THIS
17 REALLY ACCUMULATES IN ANIMAL HEART TISSUE AS IT
18 FORMS SO THAT YOU GET A LOCKDOWN ON THE ABILITY OF
19 THOSE HEART MUSCLE CELLS TO PROLIFERATE. VERY FEW
20 OF THEM CAN BE SHOWN TO MULTIPLY, VERY, VERY FEW.
21 AND IT'S ARGUABLE WHETHER ANY OF THE HEART MUSCLE
22 CELLS DO THAT. MAYBE THERE'S A SMALL POPULATION OF
23 OTHER CELLS THAT WILL MULTIPLY LESS THAN 1 PERCENT
24 OF THE HEART TISSUE OVER A LIFETIME.

25 SO IT'S A H3 CANINE TRIMETHYL-HISTONE

BARRISTERS' REPORTING SERVICE

1 METHYLATION WHICH IS OBSERVED IN THE
2 HETEROCHROMATIN, WHICH INCREASES IN THE HEART
3 MUSCLE. AND THIS IS THIS REGULATED BY RETINOMA
4 BLASTOMA GENES WITH THE E2F TRANSCRIPTION FACTORS
5 RECRUITING HETEROCHROMATIN. AND IF THEY'RE KNOCKED
6 OUT, IF THESE GENES ARE KNOCKED OUT, THE
7 HETEROCHROMATIN IS REDUCED AROUND THE PROMOTERS OF
8 THE CELL CYCLE RESUMPTION, AND YOU ACTUALLY GET
9 HEART MUSCLE CELLS BEING RELEASED BACK INTO THE CELL
10 CYCLE SO THEY CAN PROLIFERATE. THEREFORE, THE RB
11 GENE, THE RETROBLASTOMA GENES AND THE P130 GENES
12 HAVE A ROLE IN MAINTAINING POSTMITOTIC ARREST,
13 KEEPING THE CELLS FROM MULTIPLYING BY SILENCING
14 PROCESS.

15 AND IF YOU CAN RESTORE THE PROLIFERATIVE
16 ABILITY OF CARDIOMYOCYTES BY TARGETING THESE GENES,
17 IT MAY ENABLE A FISHLIKE REPAIR OF INJURED HEART
18 TISSUE. SO WHAT I'M SHOWING YOU UP THERE, ON ONE
19 SIDE THESE GENES WILL STABLY SILENCE THAT. AND IF
20 YOU CAN ACTUALLY AFFECT THOSE GENES, YOU MAY ENABLE
21 HEART MUSCLE CELLS TO COME BACK OUT AND PROLIFERATE.
22 I THINK THAT'S A PRETTY IMPORTANT OBSERVATION
23 BECAUSE IT MIGHT ALLOW US TO START TO FIGURE OUT
24 WHAT WE COULD DO TO ENABLE SOME OF THOSE HEART
25 MUSCLE CELLS TO START PROLIFERATING IN CASES OF

BARRISTERS' REPORTING SERVICE

1 HEART DAMAGE. I THOUGHT IT WAS A VERY NICE PIECE OF
2 WORK.

3 THE SECOND ONE, AND IT'S A PAPER OUT OF
4 MICHA DRUKKER'S LAB HERE AT STANFORD. IT'S ANOTHER
5 REALLY NICE PIECE OF WORK. WE'VE ALWAYS HAD THE
6 PROBLEM WITH EMBRYONIC OR PLURIPOTENTIAL STEM CELLS
7 THAT IF YOU GET ANY UNDIFFERENTIATED CELLS SURVIVING
8 IN YOUR DIFFERENTIATION, THEY CAN GO ON AND PRODUCE
9 A TERATOMA. SO IT'S A BIG ISSUE FOR THE REGULATORY
10 AUTHORITY. IT'S A BIG ISSUE WHEN YOU COME TO
11 TRANSPLANT PLURIPOTENTIAL STEM CELLS THAT HAVE BEEN
12 DIFFERENTIATED IN WHATEVER CELL YOU LIKE. SO
13 PARTICULARLY IN ALL THE EARLY DAYS OF
14 TRANSPLANTATION, WE SAW A LOT OF TERATOMAS APPEARING
15 BECAUSE THESE UNDIFFERENTIATED CELLS WERE STILL
16 THERE, STILL THERE IN SUFFICIENT NUMBERS THAT THEY
17 WOULD CAUSE THESE TERATOMAS.

18 WELL, MICHA DRUKKER'S GROUP HERE AT
19 STANFORD IN THE STEM CELL CENTER, THEY RAISED A
20 MONOCLONAL ANTIBODY AND THEY CALLED IT SSEA-5 THAT
21 BINDS SPECIFICALLY TO AN H1-TYPE GLYCAN EXPRESSED
22 SPECIFICALLY IN HUMAN PLURIPOTENTIAL STEM CELLS.
23 THEY'VE ALSO GOT SOME OTHER MARKERS THAT ARE COMMON
24 AND SPECIFIC TO THESE. AND SO WHEN YOU COMBINE THIS
25 SSEA-5 ANTIBODY IN COMBINATION WITH TWO OF THE OTHER

BARRISTERS' REPORTING SERVICE

1 MARKERS SHOWN IN THAT LINE, CD9, CD30, CD50, CD90,
2 OR CD200, YOU ACTUALLY REMOVE, YOU IMMUNODEplete ALL
3 THE INCOMPLETELY DIFFERENTIATED HUMAN EMBRYONIC STEM
4 CELLS, AND NO TERATOMAS ARE FORMED, NONE.

5 NOW, I THINK THIS IS VERY NICE PIECE OF
6 WORK. OTHER PEOPLE HAVE DESCRIBED METHODS FOR DOING
7 THIS. THIS SEEMS A VERY COMPLETE STUDY. IT WAS
8 PUBLISHED IN *NATURE BIOTECHNOLOGY*, AND I THINK IT'S
9 A POWERFUL METHOD FOR REMOVING ANY TERATOMA-FORMING
10 CELLS FOR RESEARCH OR CLINICAL APPLICATION. SO I
11 THINK IT'S A GREAT PIECE OF WORK, AND IT'S ONE I
12 THINK IS GOING TO BE UTILIZED VERY WIDELY.

13 THE OTHER PIECE OF WORK THAT I WANTED TO
14 REFER TO YOU IS ANOTHER STUDY OUT OF THE JACOBSON
15 LAB AT UCLA PUBLISHED IN *GENOME BIOLOGY*. YOU WILL
16 BE AWARE THAT METHYLATION IS THE WAY THE GENOME HAS
17 FOR SILENCING GENES. I'VE SPOKEN TO YOU BEFORE. IF
18 YOU METHYLATE THE DNA, YOU WILL GENERALLY SILENCE
19 THE GENES. SO YOU'VE GOT ISLAND, CPG ISLANDS THAT
20 ARE SUBJECT TO METHYLATION, YOU WILL GET THOSE GENES
21 IN THAT AREA SILENCED.

22 THERE'S ALWAYS BEEN AN INKLING THAT THERE
23 IS THE OPPOSITE EFFECT, THE ROCKER EFFECT, AN
24 ENHANCER SOMEWHERE. HOW DO YOU GET GENES TURNED ON?
25 HOW DO YOU GET THEM EXPRESSED? SO IN

BARRISTERS' REPORTING SERVICE

1 DIFFERENTIATION YOU WANT TO SILENCE, BUT YOU WANT TO
2 GET SOME GENES TO BE EXPRESSED, TURN THEM ON. WELL,
3 ACTUALLY NOW THEY HAVE FOUND IT BECAUSE THEY TOOK A
4 GENOMEWIDE MAPPING OF THE 5HMC, WHICH IS A MOLECULE
5 WHICH SORT OF OPERATES IN THE OPPOSITE DIRECTION.

6 SO IT'S FOUND IN GENES THAT ARE ACTIVE OR
7 TURNED ON AND PRESENT ON ENHANCERS. THESE ARE THE
8 ENHANCER SECTIONS OF THE GENES THAT ARE CRITICAL FOR
9 MAINTAINING HUMAN EMBRYONIC STEM CELLS, EXAMPLE,
10 OCT4 AND NANOG DNA BINDING SITES. SO NOW THEY'VE
11 DISCOVERED THE OTHER COMPONENT TO THE SILENCING IS
12 THE ACTIVATOR. NOW WE'VE GOT A VERY GOOD IDEA WHAT
13 IS GOING TO TURN GENES ON AND OFF. AND STARTING TO
14 UNDERSTAND THIS COMPLEX EPIGENOMIC REGULATORY SYSTEM
15 IS VERY CRITICAL IN A WAY WE CAN ACTUALLY TURN GENES
16 ON TO DO THE THINGS THAT WE ACTUALLY REALLY WANT
17 THEM TO DO, TO TURN THEM INTO THE MATURE STATE,
18 FUNCTIONAL STATE. SO I THINK IT'S, AGAIN, A VERY
19 NICE PIECE OF WORK.

20 WELL, THEY WERE THREE OF THE PAPERS THAT
21 ARE QUITE BASIC PAPERS, BUT I THINK VERY IMPORTANT
22 PAPERS TO US. AND I THINK THEY'RE GOING TO UNDERPIN
23 A LOT OF FURTHER WORK THAT'S GOING ON IN THE AREA.
24 AND NOTICEABLY THOSE WERE OUT OF CALIFORNIA.

25 I THOUGHT I'D DRAW YOUR ATTENTION TO THE

BARRISTERS' REPORTING SERVICE

1 INTELLECTUAL PROPERTY THAT'S EVOLVING OUT OF CIRM.
2 I THOUGHT YOU SHOULD BE UPDATED ON IT. AS OF AUGUST
3 2011, THERE ARE 69 CIRM-FUNDED INVENTIONS THAT ARE
4 REGISTERED WITH OUR GRANTS MANAGEMENT TEAM.
5 THIRTY-TWO ARE SUBJECT TO PATENT FILING. SO THIS IS
6 THE UPDATE AT THE MOMENT. IT MIGHT NOT SOUND LIKE A
7 LOT OF PATENTS THAT ARE ACTUALLY FILED AT THE
8 PRESENT TIME, BUT THIS IS AN EVOLVING PROCESS. IT
9 TAKES TIME FOR THE INVENTIONS TO GO THROUGH THE
10 PROCESS TO BE FILED.

11 SO GRANTEES ARE ACTIVELY SEEKING TO
12 LICENSE THESE. TWO ARE OPTIONED TO SMALL COMPANIES
13 TO DATE. THERE'S TWO OF THESE THAT HAVE GONE OFF TO
14 UTILIZATION BY SMALL COMPANIES. SO THERE WILL BE AN
15 UPDATE ON THE LICENSING NEXT MONTH, SO WE'LL EXPECT
16 THIS TO CONTINUE TO LIFT AND PROBABLY ACCELERATE IN
17 TIME. BUT GIVING YOU THE ACTUAL SITUATION ON
18 INTELLECTUAL PROPERTY RIGHT OF NOW.

19 I WAS ALSO ASKED BY THE EXECUTIVE TO GIVE
20 YOU A QUICK UPDATE ON THE ALLIANCE FOR REGENERATIVE
21 MEDICINE. AND I THINK THAT WAS INCLUDED IN YOUR
22 PAPERS. AND SO PLEASE READ IT AT YOUR LEISURE.
23 THIS IS THE ORGANIZATION THAT REPRESENTS BROADLY ALL
24 OF THE COMPANIES IN THE STEM CELL SPACE, BUT ALSO
25 ORGANIZATIONS AS WELL, BUT PRINCIPALLY COMPANIES AND

BARRISTERS' REPORTING SERVICE

1 ORGANIZATIONS AND INCLUDES SOME UNIVERSITY
2 ORGANIZATIONS, BUT NOT SO MANY OF THE
3 NOT-FOR-PROFIT, BUT IT'S GOT ALMOST ALL OF THE STEM
4 CELL COMPANIES IN THE U.S. INVOLVED. AND THEY'RE
5 NOW WIDENING THAT TO AN INTERNATIONAL BASIS.

6 SO THERE'S A GOVERNMENT RELATIONS
7 COMMITTEE. THEY HAVE BEEN ABLE TO GET 11 BIPARTISAN
8 SUPPORTERS FOR THE REGENERATIVE MEDICINE PROMOTION
9 ACT 2011 IN THE HOUSE AND CONGRESSIONAL SUPPORT FOR
10 NIST FOR REGENERATIVE MEDICINE ACTIVITIES. THAT'S
11 NATIONAL INSTITUTES FOR STANDARDS. THAT'S PRETTY
12 IMPORTANT TO GET BECAUSE IF THEY'RE INSTRUCTED TO
13 ASSIST IN THIS WAY, THEY CAN HELP US ALL DEVELOP
14 STANDARDS THAT ARE NECESSARY FOR THE REGULATORY
15 PROCESSES IN THE REGISTRATION OF CLINICAL TRIALS,
16 FOR EXAMPLE.

17 THE HOUSE APPROPRIATIONS SUBCOMMITTEE ON
18 COMMERCE, JUSTICE, AND SCIENCE IS NOW SUPPORTING FOR
19 REGENERATIVE MEDICINE IN 2012, WHICH IS GOOD. ARM'S
20 GIVING BRIEFING TO U.S. HOUSE TRICAUCUS, AND THEY'VE
21 DONE THAT BRIEFING, AND THEY'LL ALSO BRIEF THE
22 SENATE IN THE FALL. SO THERE'S A LOT OF ACTIVITY
23 DOWN THERE AT THE GOVERNMENT LEVEL.

24 THERE'S A REGULATORY AND REIMBURSEMENT
25 COMMITTEE, AND THAT'S IMPORTANT FOR US TO KEEP

BARRISTERS' REPORTING SERVICE

1 ABREAST OF. THEY'RE HAVING REGULAR MEETINGS
2 ARRANGED WITH THE FDA FOR ISSUES OF MUTUAL CONCERN.
3 AND THE INDUSTRY, ARM, THAT IS, THEY'RE ABLE TO
4 NOMINATE A NONVOTING REPRESENTATIVE TO SERVE ON THE
5 CELL, TISSUE, AND GENE THERAPY ADVISORY COMMITTEE.
6 AGAIN, HAVE SOMEBODY INTERNAL THERE TO REPRESENT
7 VIEWS FROM THE INDUSTRY IN PARTICULAR.

8 THERE'S A SCIENCE AND TECHNOLOGY COMMITTEE
9 FOR WHICH I CHAIR, AND IT'S ESTABLISHED A PROJECT ON
10 CELL POTENCY ASSAYS FOR REGULATORY GUIDANCE. CELL
11 POTENCY IS ONE OF THE REALLY DIFFICULT AREAS TO GET
12 ASSAYS AND TO GET AGREEMENT BECAUSE THERE'S SUCH A
13 DIVERSITY OF CELLS AND THEIR ORIGINS.

14 SO THERE'S FOUR WORKING GROUPS
15 ESTABLISHED, ONE ON METHODS REGISTRY. AND THAT IS
16 BEING CO-CHAired BY ELLEN FEIGAL HERE WITH SOME
17 SUPPORT FROM US. A SECOND WORKING GROUP ON
18 REFERENCE METHODS AND MATERIALS, A THIRD ONE ON
19 ASSAY DEVELOPMENT AND VALIDATION, A FOURTH ONE ON
20 ANALYTICAL TECHNOLOGY.

21 WE EXPECT THESE WORKING GROUPS TO REPORT
22 OVER THE NEXT SIX TO 12 MONTHS, AND THIS WILL
23 DIRECTLY HELP US. THIS IS A WAY IN WHICH IT WILL
24 REACH OUR CAPACITY TO ASSIST INDUSTRY AND OUR
25 ACADEMIC COLLEAGUES IN MAKING THEIR WAY THROUGH THE

BARRISTERS' REPORTING SERVICE

1 REGULATORY PROCESS. IT'S A VERY IMPORTANT PROCESS
2 THAT'S GOING ON, AND IT'S TAKING A LOT OF PEOPLE'S
3 TIME, INCLUDING, AS I SAID, ELLEN FEIGAL AND ONE OF
4 OUR OTHER SCIENCE OFFICERS WHO ARE INVOLVED IN THIS.

5 THERE'S A SCIENCE AND TECHNOLOGY -- I'VE
6 SAID THAT. THERE'S A MEMBERSHIP COMMITTEE. THERE
7 ARE 81 ORGANIZATIONS AND COMPANIES INVOLVED IN THAT.
8 THERE'S A COMMUNICATIONS SUBCOMMITTEE WITH AN ACTIVE
9 AWARENESS PROGRAM IN MAINSTREAM MEDIA. AS PART OF
10 THEIR ACTIVITIES, THERE'S A STEM CELL MEETING ON THE
11 MESA CONFERENCE ON NOVEMBER THE 29TH. IT'S BEING
12 COHOSTED BY CIRM, AND PARTICULARLY THE INVOLVEMENT
13 OF ELONA BAUM. IT'S THE FIRST INVESTIGATOR AND
14 PARTNERING FORUM FOR STEM CELL AND REGENERATIVE
15 MEDICINE COMPANIES. AND I THINK, ELONA, THERE ARE
16 SIX, WE'RE HOPING THAT SIX OF OUR TEAMS WILL
17 PARTICIPATE IN THAT. AND I THINK THERE'S 32 SPOTS.
18 SIX OF THOSE SPOTS ARE FROM ACTIVITIES THAT ARE
19 GENERATING FROM CIRM. SO IT WILL BE VERY
20 INTERESTING TO SEE HOW THAT GOES.

21 DUANE ROTH IS VERY MUCH INVOLVED WITH THAT
22 PARTICULAR MEETING ON THE MESA. AND SO IT'S A GOOD
23 ONE TO ATTEND. IT'S A VERY INTERESTING CONFERENCE,
24 THAT ONE, AND PARTICULARLY RELEVANT TO WHAT OUR
25 INTERESTS ARE.

BARRISTERS' REPORTING SERVICE

1 THERE ARE A NUMBER OF NEW APPOINTMENTS.
2 GLAD TO SEE THE NEW APPOINTMENT IN THE CHAIR'S
3 OFFICE. THAT'S TERRIFIC. BUT IN THE OFFICE OF THE
4 MANAGER, OFFICE MANAGER AT CIRM, PAUL FRECH HAS BEEN
5 APPOINTED. WENDY ROGERS IS APPOINTED AS GRANTS
6 MANAGEMENT SPECIALIST. CELESTE HEIDLER IS
7 REPLACING, IF YOU CAN EVER REPLACE, MARGARET. WE
8 HAD SEVERAL FAREWELLS FOR MARGARET AND FROM THE
9 FINANCE OFFICE. AND SHE'S BEEN A WONDERFUL
10 CONTRIBUTOR TO OUR ORGANIZATION AND IS A REAL BOND
11 THROUGHOUT THE ORGANIZATION. BUT WE'RE ESPECIALLY
12 PLEASED TO HAVE CELESTE JOIN US, WHO'S HAD A VERY
13 LONG CAREER IN PUBLIC SERVICE. I WONDER IF YOU'D
14 SORT OF STAND UP.

15 (APPLAUSE.)

16 DR. TROUNSON: WE ALSO APPOINTED NATALIE
17 DEWITT, THE SPECIAL PROJECTS OFFICER TO THE
18 PRESIDENT. SHE WAS IN THE PAST AN EDITOR FOR
19 *NATURE*, AND SHE'S ALSO BEEN MORE RECENTLY HEAD OF
20 SCIENCE AFFAIRS FOR THE PASTEUR INSTITUTE. SO SHE'S
21 ARRIVING IN SEPTEMBER.

22 AND LISA KADYK, I HOPE I'VE GOT THE
23 PRONUNCIATION RIGHT, AS A NEW SCIENCE OFFICER WHO'S
24 APPOINTED INTO THE SCIENCE OFFICE.

25 UPCOMING RFA'S, JUST TO REMIND YOU. THE

BARRISTERS' REPORTING SERVICE

1 DISEASE TEAM THERAPY DEVELOPMENT, THE PLANNING
2 APPLICATIONS ARE GOING TO BE ASSESSED AT THIS BOARD
3 MEETING, AND THE FUNDING PERIOD BEGINS SEPTEMBER THE
4 1ST. THE PART 2 RESEARCH AWARD WILL BE POSTED IN
5 SEPTEMBER, AND SO THAT'S VERY CLOSE NEARBY FOR THE
6 MAIN PART OF THAT RFA.

7 EARLY TRANSLATIONAL III PROGRAM, RFA
8 POSTING ON JUNE THE 13TH, GRANTS WORKING GROUP
9 REVIEW OF APPLICATIONS IS EXPECTED IN MARCH 2012.

10 AND THE CIRM STEM CELL BIOLOGY IV, THE
11 BASIC PROGRAM CONCEPT PROPOSAL WILL COME TO THE
12 BOARD IN OCTOBER THIS YEAR.

13 THERE WAS A CIRM 2011 BRIDGES TO STEM CELL
14 ANNUAL RESEARCH TRAINEE MEETING IN SAN FRANCISCO ON
15 JULY 7TH THROUGH THE 8TH THAT ATTRACTED 195
16 PARTICIPANTS, INCLUDING PROGRAM DIRECTORS, MENTORS,
17 ICOC MEMBERS, CIRM STAFF, AND 130 TRAINEES. THERE
18 WERE TALKS BY LEADERS IN STEM CELL RESEARCH IN
19 CALIFORNIA, INCLUDING JANE LEBKOWSKI, CATRIONA
20 JAMIESON, JENNIFER MANILAY, MAURICIO ROJAS, BERT
21 LUBIN FROM THE BOARD, FRED GAGE, MAHENDRA RAO, RENEE
22 REYO PERA, AND RON EVANS. AND THERE WAS ALSO A
23 CAREER PANEL THAT WAS CHAIRED BY FRANCISCO PRIETO,
24 JENNIFER MANALAY, IRENE GRISWALD PENA, ELLEN FEIGAL,
25 AND MICHAEL YAFFE. THERE WERE 105 POSTER

BARRISTERS' REPORTING SERVICE

1 PRESENTATIONS BY THE BRIDGES TRAINEES. AND I THINK
2 WE HAVE UP ON OUR WEBSITE A VIDEO ON THAT PROGRAM.

3 IT'S A VERY, VERY SUCCESSFUL MEETING.
4 PEOPLE WERE DELIGHTED TO BE THERE. THEY HAD A
5 CHANCE TO GET ONE ON ONE WITH SOME OF THE RESEARCH
6 LEADERS IN STEM CELLS. AND REALLY THEIR ENTHUSIASM
7 IS ABSOLUTELY OVERWHELMING.

8 THE CREATIVITY AWARDS PROGRAM HAD A SUMMER
9 THIS YEAR PILOT PROGRAM THAT INVOLVED UCSF,
10 UNIVERSITY OF CALIFORNIA SANTA BARBARA, STANFORD,
11 AND UNIVERSITY OF CALIFORNIA DAVIS. IT HAD FOUR TO
12 SIX JUNIOR/SENIOR SCIENTISTS PER PROGRAM FROM THE
13 CALIFORNIA HIGH SCHOOLS, A TOTAL OF 22 STUDENTS.
14 STUDENTS ACCEPTED IN THE PROGRAMS WERE BASED ON
15 ACADEMIC ACHIEVEMENT AND SOCIOECONOMIC STATUS.

16 IN THE PROGRAM ACTIVITIES, THEY HAD
17 RESEARCH AND TRAINING ACTIVITIES AND MENTORING IN
18 THE PI'S LAB, WEEKLY LECTURES, DISCUSSIONS, AND
19 MEETINGS. THERE WERE 18 POSTERS PRESENTED AT CIRM,
20 A SPONSORED POSTER DAY WHICH IS HELD AT CHORI THANKS
21 TO BERT LUBIN IN OAKLAND IN AUGUST ON AUGUST THE 2D.
22 AND FOUR STUDENTS WERE RECOGNIZED FOR VERY HIGH
23 ACHIEVEMENTS AND WERE INVITED TO GIVE A TEN-MINUTE
24 PRESENTATION ON THEIR SUMMER RESEARCH.

25 I WAS REALLY KNOCKED BACK BY THESE

BARRISTERS' REPORTING SERVICE

1 STUDENTS. ACTUALLY WHEN I FIRST MET THEM WHEN I WAS
2 AT DAVIS, I THOUGHT THEY WERE POST DOCS. THEY WERE
3 INCREDIBLY SMART PEOPLE. AND IF THEY'RE IN THIS --
4 THE CREATIVITY PROGRAM REQUIRES THAT THEY NOT ONLY
5 DO STEM CELLS, BUT THEY DO MUSIC, ACTING, ONE OTHER
6 SOMETHING, PHYSICS, SOMETHING WHICH IS RIGHT OUT OF
7 THE FIELD. AND WHAT THEY BRING WITH THAT CREATIVE
8 ELEMENT WHERE THERE'S A DUALITY IS ASTONISHING. IT
9 WAS JUST FANTASTIC. AND I ACTUALLY THINK THIS IS A
10 WONDERFUL PROGRAM, AND I'D LIKE YOU TO MEET THOSE
11 STUDENTS SOMETIME. YOUNG PEOPLE FINISHING HIGH
12 SCHOOL, WOW. THIS STATE'S GOT SOME TALENT, I TELL
13 YOU. IF THAT'S A SAMPLING OF THE TALENT, IT'S JUST
14 EXTRAORDINARY AND WONDERFUL.

15 HOPEFULLY THEY WILL BE ATTRACTED TO
16 CONTRIBUTE TO THE REGENERATIVE MEDICINE FIELD, BUT
17 WHATEVER, THEY CERTAINLY KNOW ABOUT IT NOW.

18 THERE'S A WORKSHOP THAT WAS HELD IN
19 FRANCE, THE AGENCE NATIONALE DE LA RECHERCHE HELD IN
20 JULY IN PARIS, ATTENDED BY NINE CALIFORNIA
21 SCIENTISTS AND 11 FRENCH SCIENTISTS, A MIXTURE OF
22 THE TWO SETS OF SCIENTISTS TO SEE WHETHER WE COULD
23 ENCOURAGE SOME COLLABORATIVE RESEARCH PROGRAMS. IT
24 INVOLVED UCSF, UCLA, UC IRVINE, UNIVERSITY OF
25 CALIFORNIA AT SANTA BARBARA AND SAN DIEGO, STANFORD,

BARRISTERS' REPORTING SERVICE

1 AND ROCHE, AND THE PASTEUR INSTITUTE, I-STEM, IGBMC,
2 IBENS, ET AL.

3 THE FOCUS WAS ON BASIC BIOLOGY BECAUSE THE
4 FRENCH WERE INTERESTED MORE IN THE BASIC SCIENCE AND
5 HOW TO MAKE CONNECTIONS THERE. THEIR ACTIVITIES
6 INVOLVED SCIENTIFIC PRESENTATIONS AND POLICY
7 DISCUSSIONS, NETWORKING, COLLABORATIVE BUILDING
8 STRATEGIES. SO WE WOULD EXPECT NOW THE FRENCH TO
9 ENGAGE WITH US, AND I WOULD EXPECT IN THE FUTURE
10 SOME COLLABORATIVE RESEARCH GRANTS COMING PROBABLY
11 INITIALLY THROUGH THE BASIC SCIENCE INVOLVING FRENCH
12 AND CALIFORNIAN SCIENTISTS. THERE'S SOME WONDERFUL
13 SCIENCE BEING DONE IN FRANCE. THERE'S SOME
14 FANTASTIC WORK, AND IF THAT'S LINKED TOGETHER WITH
15 SOME OF THE INITIATIVES IN CALIFORNIA, AGAIN, WE'LL
16 GET TERRIFIC LIFT THERE.

17 WE'VE HAD A NUMBER OF DISCUSSIONS AT OUR
18 EXECUTIVE BOARD, AS THE CHAIR TOLD YOU, ABOUT THE
19 UPCOMING INSTITUTE OF MEDICINE REVIEW AND THE FACT
20 THAT WE HAD TO PREPARE A STRATEGIC PLAN REVISION IN
21 2012. THE VIEW OF THE BOARD, THE EXECUTIVE, WAS
22 THAT IT WOULD BE CRAZY TO HAVE THAT STRATEGIC PLAN
23 HAPPEN AFTER THE REVIEW, AND THAT WE SHOULD PUT IT
24 ON A FAST TRACK TO GET A REVISION OF THE STRATEGIC
25 PLAN AVAILABLE SO THAT THE INSTITUTE OF MEDICINE

BARRISTERS' REPORTING SERVICE

1 COULD CONSIDER IT, BEING THE UP-TO-DATE VIEW OF THE
2 DIRECTION THAT THE INSTITUTE IS TAKING.

3 IT IS A STRATEGIC PLAN. IT'S A LIVING
4 PLAN WITH SOME SET TIMES FOR OUTSIDE REVIEW. AFTER
5 YEAR THREE, A 2009 REVISION TO THE STRATEGIC PLAN,
6 2010 EXTERNAL ADVISORY PANEL, THAT WAS A
7 REQUIREMENT, AND 2012 WE'RE REQUIRED TO REVISE THE
8 PLAN REFERENCING THE 2011 RESPONSE TO THE EXTERNAL
9 ADVISORY PANEL'S RECOMMENDATION.

10 SO WE'VE STARTED BY CREATING A PROPOSED
11 TIMELINE. SO I'M BRINGING THIS TO YOU TO GET SOME
12 INPUTS FROM YOU, GET YOU AWARE THAT THIS IS GOING TO
13 HAPPEN.

14 WE'VE HAD AN ALL-DAY RETREAT BY SENIOR
15 STAFF ON AUGUST THE 18TH TO START THINKING ABOUT
16 THIS WITH SOME PROFESSIONAL ASSISTANCE. AND ON
17 AUGUST 25TH I'M TELLING YOU ABOUT THE INPUT ON THE
18 PROPOSED PROCESS, SEEKING TO HAVE SOME GUIDANCE FROM
19 YOU ON THE PROCESS.

20 IN SEPTEMBER THE 12TH WE WOULD HOPE TO
21 DEVELOP SOME SORT OF DRAFT OF STRATEGIC ADJUSTMENTS
22 FOR CONSIDERATION AND ADDED OR REVISED GOALS FROM
23 OUR 2009 REVISION. AND SEPTEMBER 13TH THERE'S A
24 MEETING WITH THE CALIFORNIA STEM CELL RESEARCH
25 DIRECTORS AND NATIONAL LEADERS HELD IN CONJUNCTION

BARRISTERS' REPORTING SERVICE

1 WITH CIRM. SO WE'RE GOING TO TAKE THAT OPPORTUNITY
2 TO TALK TOGETHER WITH THEM ABOUT OUR STRATEGIC
3 DIRECTION, BRINGING IT TO THE ICOC BOARD IN OCTOBER,
4 THE FIRST OPPORTUNITY. SO THE CHAIR HAS RECOMMENDED
5 THAT WE TAKE SOME TIME AT THE OCTOBER BOARD TO LOOK
6 AT A DRAFT OR SUGGESTED REVISIONS AND HAVE THE
7 ICOC'S INPUT INTO IT.

8 WE'RE PROPOSING SEPTEMBER THROUGH TO
9 NOVEMBER TWO PUBLIC MEETINGS, ONE IN NORTHERN
10 CALIFORNIA AND ONE IN SOUTHERN CALIFORNIA, WITH THE
11 SPECIAL INVITES TO ALL GRANTEEES AND PATIENT
12 ADVOCATES. TWO INDUSTRY MEETINGS AGAIN IN NORTHERN
13 AND IN SOUTHERN CALIFORNIA WITH INVITATIONS TO
14 BIOTECH AND PHARMA TO PARTICIPATE.

15 CONFERENCE CALL WITH CLINICAL DEVELOPMENT
16 ADVISORS, CALLS TO LEADERS OF PROFESSIONAL TRADE
17 ALLIANCES, FOR EXAMPLE, THE ISSCR, THE INTERNATIONAL
18 SOCIETY FOR TRANSPLANTATION, AND THE ARM
19 ORGANIZATION TO GET THEIR VIEWS. CONFERENCE CALL
20 WITH OUR COLLABORATIVE FUNDING PARTNERS. GET AS
21 MANY OF THE INPUTS AS WE CAN.

22 AND NOVEMBER THE 7TH TO DECEMBER THE 1ST
23 GET ANOTHER RETREAT TO DEFINE THE ADJUSTMENTS UNDER
24 CONSIDERATION AND ADDED GOALS AND GET SOME SORT OF
25 REVISION TO SENIOR MANAGEMENT BY DECEMBER THE 1ST.

BARRISTERS' REPORTING SERVICE

1 GET TO THE JANUARY MEETING FOR THE THIRD REVISION TO
2 THE ICOC BOARD FOR INPUT. HAVE FEBRUARY THE 15TH
3 ICOC BOARD COMMENTS BACK TO SENIOR STAFF, AND
4 HOPEFULLY BY MARCH THE 1ST THE FINAL VERSION READY
5 FOR ICOC CONSIDERATION AND VOTE. SO THAT'S WHAT
6 WE'VE PROPOSED. THAT'S WHAT WE'VE TALKED WITH OUR
7 EXECUTIVE ABOUT. SO WE WOULD WELCOME ANY INPUTS ON
8 THAT.

9 THERE'S A CIRM 2011 GRANTEE MEETING IN SAN
10 FRANCISCO ON SEPTEMBER THE 14TH THROUGH THE 16TH,
11 JUST TO REMIND YOU, TO BRING TOGETHER INVESTIGATORS
12 AND TRAINEES FUNDED BY CIRM AND CIRM'S COLLABORATIVE
13 FUNDING PARTNERS. IT'S TO HIGHLIGHT GRANTEE WORK
14 FROM BASIC THROUGH TO TRANSLATION OF CLINICAL
15 RESEARCH, ENCOURAGING SCIENTIFIC EXCHANGE AND
16 COLLABORATION. IT'S THE BEST MEETING, SAID TO BE
17 THE BEST MEETING IN STEM CELLS IN THE WORLD. THIS
18 IS WHAT THE PEOPLE SAY THAT ATTEND IT.

19 SO ON THE AGENDA THERE'S PLENARY TALKS BY
20 CIRM PRINCIPAL INVESTIGATORS AND OTHER LEADERS
21 OUTSIDE CALIFORNIA IN THE FIELD. SO THEY'RE REALLY
22 TERRIFIC TALKS. POSTERS AND SHORT TALKS BY
23 TRAINEES. NETWORKING OPPORTUNITIES AND TRAINING
24 OPPORTUNITIES AND PUBLIC COMMUNICATION AND ADVOCACY.
25 SO IT'S A GREAT MEETING. WE'RE GOING TO HAVE SOME

BARRISTERS' REPORTING SERVICE

1 OF THE BUSINESS GROUPS REPRESENTED ALSO IN PART OF
2 THIS MEETING TO GET THEM TO DEMONSTRATE SOME OF
3 THEIR WARES, SOME OF THEIR OPPORTUNITIES FOR THE
4 CALIFORNIA GRANTEES AS WELL.

5 I THINK IT'S A GREAT MEETING. I THINK
6 I'VE ENJOYED EVERY MOMENT OF THOSE MEETINGS.
7 THEY'RE JUST SO INSPIRING. WE HOLD THEM UNDER COLD
8 SPRING HARBOR RULES SO THAT THE ABSOLUTE DATA RIGHT
9 UP TO DATE IS BEING GIVEN. WE DON'T REPORT ANY OF
10 THE INFORMATION. BUT IF THE PRESENTERS OR THE
11 AUTHORS WANT TO TALK TO PRESS, THAT'S THEIR
12 BUSINESS, BUT WE DON'T. SO IT'S COLD SPRING HARBOR
13 RULES. AND THAT REALLY GIVES EVERYBODY A CHANCE TO
14 TALK TO THE SCIENTISTS ABOUT WHAT'S ACTUALLY RIGHT
15 ON THE PACE RIGHT THERE AND THEN.

16 THERE'S A GRANTS MANAGEMENT REVISION
17 DEVELOPMENT. CAN I ASK PAT OLSON TO PRESENT THIS TO
18 YOU? WE WERE ASKED TO DO THAT.

19 DR. OLSON: I'M JUST FOLLOWING UP ON A
20 REQUEST THAT WAS MADE EARLIER TO GIVE A BIT OF AN
21 UPDATE ON WHAT WE'RE DOING IN OUR I.T. GROUP. AND
22 SO THERE WAS A HANDOUT THAT IS PART OF THE
23 PRESIDENT'S REPORT AND I THINK BEHIND TAB 5 THAT
24 GOES INTO A LITTLE BIT MORE DEPTH. BUT I BASICALLY
25 JUST WANTED TO HIGHLIGHT TO YOU THAT ESSENTIALLY

BARRISTERS' REPORTING SERVICE

1 WHAT WE'RE REALLY TRYING TO DO IS WE'RE CONTINUING
2 TO MOVE TO ONLINE FUNCTIONALITY FROM PDF.

3 SO RECENTLY WE'RE DOING MORE COMPLEX,
4 WE'RE ADDING MORE COMPLEX ELEMENTS TO OUR
5 PREAPPLICATION FOR OUR APPLICATIONS. THE BIG DEAL
6 NOW IS WE'RE STRIVING TO GET BOTH THE EARLY
7 TRANSLATION III AND THE DISEASE TEAM THERAPY
8 DEVELOPMENT APPLICATION TO BE OUT BY THE END OF
9 OCTOBER. AND THIS IS GOING TO INTRODUCE ONLINE
10 BUDGET FUNCTIONALITY, WHICH WE HAVEN'T HAD TO DATE.
11 SO WE'VE BEEN KEEPING OUR PROGRAMMERS BUSY FOR THAT.

12 ANOTHER THING IS OUR PREFUNDING
13 ADMINISTRATIVE REVIEW. THAT'S ALWAYS BEEN A
14 PDF-BASED PROCESS. AND NOW WE'RE WORKING TO GET
15 THAT TO BE AN ONLINE PROCESS. AND THAT FOLLOWS ON
16 FROM -- I THINK WE'VE TOLD YOU BEFORE ABOUT WE'RE
17 DOING ANNUAL ONLINE PROGRESS REPORTING NOW. OUR
18 GRANTEES CAN GO ONLINE TO DO THAT. ALSO PUBLICATION
19 REPORTING IS CURRENTLY ONLINE.

20 SO WHAT WITH PUTTING THE PFAR PROCESS, THE
21 PREFUNDING ADMINISTRATION REVIEW, TRYING TO GET OUR
22 INVENTION DISCLOSURE PROCESS ONLINE, THESE ARE GOING
23 TO BE NEXT STEPS.

24 ANOTHER THING THAT IS NOT UP HERE, BUT IS
25 ACTUALLY IMPORTANT FOR BEING EFFICIENT WITH THE USE

BARRISTERS' REPORTING SERVICE

1 OF DEVELOPER TIME IS OUR DEVELOPERS HAVE DEVELOPED
2 WHAT I'LL CALL SOME SELF-SERVICE ADMINISTRATIVE
3 SCREENS. SO SOMEONE WHO IS NOT A DEVELOPER CAN
4 ADDRESS ISSUES THAT ARISE FROM GRANTEES OR FROM
5 PEOPLE WHO HAVE QUESTIONS. SO WE'VE DONE THAT.

6 ANOTHER IMPORTANT PART OF WHAT WE'RE DOING
7 IS PUBLIC WEBSITE INTEGRATION. SO WHAT WE HAVE
8 DONE, OUR DEVELOPERS HAVE COMPLETED THE DATA
9 PIPELINE BETWEEN THE GRANTS PORTAL AND THE PUBLIC
10 WEBSITE. WHAT THAT MEANS IS THAT WILL ENABLE
11 TRANSMITTAL TO THE PUBLIC WEBSITE OF INFORMATION
12 SUCH AS PUBLIC ABSTRACTS FROM PROGRESS REPORTS,
13 PUBLICATION DISCLOSURES. AND WHAT WE'RE AWAITING
14 NOW IS THERE'S A THIRD-PARTY VENDOR WHO'S ACTUALLY
15 RESPONSIBLE FOR MAKING THE PUBLIC WEBSITE BE ABLE TO
16 USE THAT DATASET. SO WE'RE PLEASED THAT THAT SHOULD
17 HOPEFULLY COME ONLINE PRETTY SOON.

18 PROBABLY MOST IMPORTANTLY OR VERY
19 IMPORTANT, I THINK, IS THAT WE HAD OUR FIRST EVER
20 EXTERNAL SECURITY AUDIT OF THE CIRM NETWORK. SO I
21 THINK YOU ALL HAVE HEARD OF HACKING INTO E-MAIL
22 SYSTEMS AND INTRODUCTION OF VIRUSES AND THINGS LIKE
23 THAT. WE HIRED AN AGENCY TO ESSENTIALLY PRESSURE
24 TEST OUR NETWORK. AND THIS WAS RECENTLY COMPLETED,
25 AND THE REPORT GAVE US AN ABOVE AVERAGE OVERALL

BARRISTERS' REPORTING SERVICE

1 RATING. SO WE'RE ACTUALLY VERY PROUD OF THAT.

2 THE NEXT PHASE IS THAT SAME GROUP IS GOING
3 TO TRY AND PRESSURE TEST OUR OTHER TWO EXTERNALLY
4 ACCESSIBLE SYSTEMS, WHICH IS THE GRANTS MANAGEMENT
5 SYSTEM. OBVIOUSLY IF YOU'RE SETTING UP ONLINE
6 ACCESS FOR GRANTEES TO GET IN AND REPORT AND SUCH,
7 THAT MEANS ARGUABLY OTHERS COULD GET IN AS WELL. SO
8 THAT'S ONE OF THE THINGS THEY'RE GOING TO TEST AS
9 WELL AS THE PUBLIC WEBSITE TO SEE IN. THAT'S THE
10 NEXT PHASE.

11 FINALLY, WE HAVE DONE SOME
12 INFRASTRUCTURE --

13 DR. PIZZO: COULD YOU JUST GIVE US A
14 LITTLE MORE CONTEXT ON THE EXTERNAL REVIEW AND
15 PRESSURE TESTING? I'M NOT SURE WHAT ABOVE AVERAGE
16 MEANS.

17 DR. OLSON: SO WHAT THEY DO IS ASSESS,
18 THEY LOOK AT A NUMBER OF DIFFERENT PARAMETERS. AND
19 YOU'RE NOT TALKING TO AN I.T. EXPERT HERE. SO I
20 WILL GIVE YOU THE -- THEY LOOK AT A NUMBER OF
21 DIFFERENT PARAMETERS, AND THEY SCORE THEM AS TO
22 WHETHER THEY HAVE CRITICAL ISSUES ASSOCIATED WITH
23 THEM, HIGH CONSIDERATION, OF MEDIUM CONSIDERATION,
24 OF LOW, OR FOR YOUR INFORMATION. ANYTHING THAT HAS
25 A RATING -- ANYTHING THAT THEY FIND THAT THEY

BARRISTERS' REPORTING SERVICE

1 CONSIDER MEDIUM OR HIGHER REQUIRES ATTENTION.

2 WE HAD TWO IN THE MEDIUM CATEGORY, WE HAD
3 TWO IN THE LOW CATEGORY, AND TWO IN THE INFO
4 CATEGORY. WE HAD NOTHING IN THE HIGH OR CRITICAL
5 ISSUES. SO COMPARED TO OTHER ORGANIZATIONS AND TO
6 STANDARDS SET, WE SCORE OVERALL ABOVE AVERAGE. SO I
7 HOPE THAT HELPS A LITTLE BIT.

8 THE OTHER THING THAT WE HAVE DONE IS
9 INFRASTRUCTURE UPGRADES. AND THIS IS BASICALLY TO
10 ENSURE RELIABILITY OF ACCESS AND DATA INTEGRITY
11 SHOULD WE HAVE SOME -- WELL, SHOULD THERE BE
12 DISASTER RECOVERY. IF A SERVER SHOULD FAIL, IS
13 THERE A BACKUP AUTOMATIC SWITCH? SO THAT WAS REALLY
14 ALL TO UPGRADE THAT.

15 SO IF THERE AREN'T ANY QUESTIONS, THAT'S
16 ALL I HAVE TO SAY ABOUT THAT. THANK YOU.

17 DR. TROUNSON: SO THIS IS A CURRENT
18 PICTURE OF ALL OUR WONDERFUL PEOPLE IN THE
19 MANAGEMENT TEAMS AT CIRM. AND IF I CAN ASK CHILA IF
20 SHE WILL JUST PRESENT YOU THE BRIEF OF THE 2010-11
21 BUDGET ALLOCATION AND EXPENDITURE REPORT.

22 MS. SILVA-MARTIN: GOOD MORNING, MR. CHAIR
23 AND MEMBERS OF THE BOARD. I'M JUST GOING TO GIVE
24 YOU A BRIEF UPDATE ON OUR '10-'11 BUDGET SINCE IT'S
25 BEEN SOME TIME SINCE WE PROVIDED A REPORT.

BARRISTERS' REPORTING SERVICE

1 I FIRST WANT TO POINT OUT THAT OUR
2 FINANCIAL BUDGET IS DONE ON A JULY 1ST THROUGH JUNE
3 30TH BASIS. AND I AM REPORTING ON EXPENDITURES
4 THROUGH JUNE 30TH, SO FOR THE FISCAL YEAR. BUT I
5 WANT TO POINT OUT THAT OUR FINANCIAL REPORT THIS
6 TIME IS BASED ON WHAT THOSE OF US IN STATE
7 GOVERNMENT CALL MONTH 12. SO WHAT HAPPENS DURING
8 THE YEAR-END PROCESS FOR STATE GOVERNMENT IS WE
9 ACTUALLY RUN TWO SETS OF REPORTS. WE CLOSE OFF THE
10 BOOKS AS OF JUNE 30TH. SO EVERYTHING THAT'S
11 RECORDED, WE CLOSE OFF THE BOOKS AT THAT TIME, AND
12 WE RUN A SET OF FINANCIAL STATEMENTS. AND THEN WE
13 HAVE -- WHAT WE DO IS A FINAL YEAR-END STATEMENT
14 WHICH WILL INCLUDE ALL THE LAGS AND ACCRUALS FOR THE
15 YEAR-END. SO THIS REPORT DOES NOT INCLUDE THE LAGS
16 AND ACCRUALS. SO IT'S NOT THE FINAL STATEMENT.

17 SO IN GOING OVER THE NUMBERS, BEFORE I
18 ACTUALLY DO THAT, I WANTED TO POINT OUT THAT THERE
19 ARE THREE SETS OF BARS. FOR EACH OF THE BARS, THE
20 BLUE BAR, FOR EACH GROUP THE BLUE BAR REPRESENTS THE
21 ACTUAL ALLOCATION THAT WAS APPROVED FOR OUR BUDGET.
22 THE ORANGE BAR, THE SECOND BAR, WILL REPRESENT WHAT
23 WE'VE ACTUALLY POSTED OR RECORDED ON OUR FINANCIAL
24 STATEMENTS AS OF MONTH 12, JUNE 30TH. AND THEN THE
25 GREEN REPRESENTS WHAT OUR BALANCE IS.

BARRISTERS' REPORTING SERVICE

1 SO IN LOOKING OVER THE FIRST SET OF BARS,
2 WE WERE ALLOCATED A TOTAL OF \$8,848,000. AS OF JUNE
3 30TH, WE RECORDED EXPENDITURES OF \$8,137,000,
4 LEAVING A BALANCE OF 710,000. NOW, THIS REPRESENTS
5 ABOUT 92 PERCENT OF OUR BUDGET ALLOCATION WAS
6 ACTUALLY SPENT. IN THIS CATEGORY WE DON'T REALLY
7 EXPECT MANY ACCRUALS OR LAGS BECAUSE THE
8 EXPENDITURES ARE PRETTY ACCURATE IN THIS CATEGORY.

9 WHERE WE'LL SEE A BIG DIFFERENCE FROM
10 MONTH 12 TO OUR FINAL YEAR-END STATEMENTS IS IN OUR
11 OPERATING EXPENDITURES, WHICH IS THE NEXT SET OF
12 BARS. IN THAT AREA WE WERE ALLOCATED A TOTAL OF
13 \$7,171,000. AS OF JUNE 30TH, WITHOUT ACCRUALS OR
14 LAGS, WE HAVE RECORDED EXPENDITURES OF \$4,559,000,
15 OR 64 PERCENT OF THAT ALLOCATION, LEAVING A BALANCE
16 OF \$2,611,000.

17 SO OVERALL OUR BUDGET WAS 16 MILLION.
18 WE'VE RECORDED ALMOST 13 MILLION OF EXPENDITURES,
19 LEAVING APPROXIMATELY 3 MILLION FOR ACCRUALS AND
20 LAGS AND A BALANCE BASICALLY. WE ANTICIPATE THAT A
21 BIG CHUNK OF THAT 3 MILLION WILL ACTUALLY RESULT IN
22 LAGS AND ACCRUALS. BUT BECAUSE OUR FINANCIAL
23 STATEMENTS JUST CLOSED OFF AT THE BEGINNING OF THIS
24 WEEK, WE JUST GOT THE FINANCIAL STATEMENTS YESTERDAY
25 AFTERNOON. AND SO I DIDN'T HAVE A CHANCE TO

BARRISTERS' REPORTING SERVICE

1 FINALIZE THIS REPORT SO THAT I COULD GIVE YOU A
2 FINAL JUNE 30TH. BUT AT OUR NEXT BOARD MEETING, I
3 WILL BE ABLE TO DO THAT.

4 ARE THERE ANY QUESTIONS? OKAY. THANK
5 YOU.

6 CHAIRMAN THOMAS: DOES THAT CONCLUDE YOUR
7 REPORT, ALAN? THANK YOU VERY MUCH.

8 MR. TORRES: MR. CHAIRMAN, I JUST WANTED
9 TO HIGHLIGHT THREE ISSUES. NO. 1, THE BRIDGES
10 PROGRAM HAS RECEIVED TREMENDOUS SUPPORT FROM THE
11 LEGISLATURE AND I KNOW THE GOVERNOR'S OFFICE. AND
12 THE TREMENDOUS IMPACT THESE YOUNG PEOPLE ARE HAVING
13 IS JUST -- I WANT TO MAKE SURE THAT EVERYBODY ON THE
14 BOARD, AND MANY OF YOU DO ALREADY, UNDERSTAND THE
15 IMPACT THAT THIS IS HAVING AND WILL HAVE ON
16 CALIFORNIA ON HOW WE ARE TAKING A LEAD MORE THAN ANY
17 OTHER AGENCY IN THIS STATE TO CREATE AND TO PROMOTE
18 YOUNG SCIENTISTS AS THEY'RE APPROACHING THEIR FUTURE
19 AND, QUITE FRANKLY, OURS.

20 I ALSO WANT TO THANK AMY ADAMS AND TODD
21 FOR THE INTERVIEWS THAT THEY CONDUCTED. I KNOW
22 LEEZA GIBBONS AND I SHARED THOUGHTS ABOUT THE
23 VIDEOS, WHICH WERE JUST TERRIFIC, FROM YOUNG PEOPLE
24 TALKING DIRECTLY TO THE CAMERA. WE NEED TO EXPOSE
25 THAT MORE IN TERMS OF WHAT WE'RE DOING.

BARRISTERS' REPORTING SERVICE

1 THE CREATIVITY AWARDS, MANI AND THOSE WHO
2 WORKED ON THAT SO HARD, IS AGAIN A REFLECTION OF
3 WHERE WE NEED TO CONTINUE TO GROW. THE *SACRAMENTO*
4 *BEE* DID A STORY ON THE ISSUES. I THINK AT SOME
5 POINT WE OUGHT TO PUT THESE YOUNG PEOPLE IN FRONT OF
6 THE GOVERNOR AND TEST HIS KNOWLEDGE. I THINK HE
7 WOULD BE APPROPRIATELY CHALLENGED AND WOULD LOVE THE
8 OPPORTUNITY, QUITE FRANKLY, KNOWING JERRY AS WELL I
9 DO. I THINK THAT'S GOING TO BE GREAT.

10 ON A SIDE NOTE, YOU KNOW, THE WORLD HEALTH
11 ORGANIZATION REPORTED THAT 32.5 PERCENT OF WOMEN IN
12 DEVELOPING NATIONS ARE INFERTILE. AND WHAT DOES
13 THAT MEAN? THE CONSEQUENCES ARE TREMENDOUS. IT
14 INCLUDED THE REJECTION OF WOMEN BY THEIR OWN
15 COMMUNITIES BECAUSE THEY COULDN'T HAVE CHILDREN.
16 DOMESTIC VIOLENCE AND THE SPREAD OF HIV BY
17 PROMISCUOUS HUSBANDS IN THEIR BID TO HAVE CHILDREN.

18 MANY OF YOU MAY NOT KNOW, BUT DR.
19 HAMMERBERG, WHO'S A LITTLE BIT RELATED TO ALAN
20 TROUNSON, AND ALAN AND OTHERS HAVE SPEARHEADED A
21 FOUNDATION IN THE THIRD WORLD TO MAKE THINGS BETTER
22 FOR WOMEN WHO ARE INFERTILE IN THE DEVELOPING WORLD.
23 I JUST WANT TO GIVE KUDOS TO THE GOOD DR. KAREN
24 HAMMERBERG AND OBVIOUSLY TO YOU, ALAN, FOR THIS
25 TREMENDOUS HUMANITARIAN WORK IN AN AREA THAT REALLY

BARRISTERS' REPORTING SERVICE

1 NEEDS TO BE ADDRESSED AND COURAGEOUSLY SO, I MIGHT
2 ADD.

3 (APPLAUSE.)

4 CHAIRMAN THOMAS: THANK YOU, SENATOR
5 TORRES. I WANTED TO JUST DO A TWO-SECOND FOLLOW-UP.
6 ALAN REFERENCED THE IOM REVIEW. I JUST WANTED
7 MEMBERS OF THE BOARD TO KNOW THE PRINCIPAL LIAISON
8 WITH IOM IS LYNN HARWELL, WHO'S DOING GREAT WORK
9 THERE, AS WELL AS BEING SORT OF THE PERSON PROVIDING
10 ALL OF THE CRITICAL MATERIAL TO THE DEPARTMENT OF
11 FINANCE AND THE STATE TREASURER'S OFFICE THAT IS
12 ENABLING OUR DISCUSSIONS TO BEST MAKE OUR CASE FOR
13 CONTINUED MAXIMUM FUNDING. SO, LYNN, THANK YOU VERY
14 MUCH.

15 (APPLAUSE.)

16 CHAIRMAN THOMAS: WE HAVE NEXT A COUPLE OF
17 PATIENT ADVOCATES WHO WOULD LIKE TO SPEAK TO US, AND
18 I WOULD LIKE TO INVITE -- I HOPE I HAVE THIS IN THE
19 RIGHT ORDER, MELISSA -- RICH. FIRST WE HAVE RICH
20 LARSEN FROM THE HUNTINGTON'S DISEASE SOCIETY OF
21 AMERICA.

22 MR. LARSEN: THANK YOU VERY MUCH AND GOOD
23 MORNING, EVERYBODY. IT'S NICE TO SEE MANY OF YOU
24 AGAIN. JON, CONGRATULATIONS ON THE NEW APPOINTMENT,
25 AND WE LOOK FORWARD TO WORKING WITH YOU AS WE GO

BARRISTERS' REPORTING SERVICE

1 FORWARD.

2 I'M A HUNTINGTON'S SOCIETY PATIENT
3 ADVOCATE. AND WE'VE BEEN WORKING VERY CLOSELY WITH
4 CIRM FOR QUITE SOME TIME TO DEVELOP A RELATIONSHIP
5 AND GET SOME STUDIES FUNDED SPECIFICALLY FOR DR. JAN
6 NOLTA UP IN UC DAVIS.

7 THROUGH THAT PROCESS I REALLY HAVE TO
8 RECOGNIZE AS ONE OF YOUR FIRST PUBLIC SPEAKERS THE
9 LEADERSHIP THAT BOB KLEIN HAS PROVIDED TO CIRM AND
10 REALLY GIVEN HOPE TO SO MANY PATIENTS, NOT JUST IN
11 THE HUNTINGTON'S SPACE.

12 THE REASON I'M HERE TODAY, THOUGH, IS
13 PRIMARILY TO THANK YOU FOR THE VOTE THAT I BELIEVE
14 YOU'RE TAKING AND WILL PASS, WHICH IS AN MSC, A
15 MESENCHYMAL STEM CELL STUDY, THAT DR. JAN NOLTA IS
16 CONDUCTING UP AT UC DAVIS. I UNDERSTAND THE STUDY
17 HAS SCORED VERY WELL, AND THAT THERE WILL BE, IT
18 SOUNDS LIKE, A VOTE IN THE AFFIRMATIVE WILL BE DONE
19 THIS AFTERNOON. SO I APPRECIATE YOUR ACCOMMODATING
20 MY SCHEDULE. I COULDN'T BE HERE AFTER THE VOTE, SO
21 I WANTED TO THANK YOU PREMATURELY. SO I HOPE THAT
22 IT'S NOT FOR NAUGHT.

23 BUT I AM AT RISK FOR HD, MY CHILDREN ARE
24 AT RISK, MY GRANDSON IS AT RISK, AND I HAVE SEVERAL
25 FRIENDS ALSO THAT ARE AT RISK. WE THINK THAT THIS

BARRISTERS' REPORTING SERVICE

1 STUDY IS ONE OF THE TRUE HOPES THAT WE HAVE OTHER
2 THAN EATING BLUEBERRIES FOR BREAKFAST IN THE
3 MORNING, THAT HUNTINGTON'S DISEASE PEOPLE AT RISK
4 ACTUALLY HAVE OF SOLVING THIS PROBLEM.

5 AND SO I WANTED TO EXTEND PERSONAL THANKS
6 TO THIS BODY FOR APPROVING THIS STUDY, BUT I THOUGHT
7 YOU SHOULD ALSO KNOW THAT THERE ARE SEVERAL
8 ADVOCATES, TENS OF THOUSANDS ACROSS THE COUNTRY,
9 THAT WOULD SHARE IN THESE THANKS. MY FRIEND LES
10 HERE, HIS WIFE PASSED OF HD FAIRLY RECENTLY, A LONG
11 AND DIFFICULT DISEASE. AND NOW HE HAS A SON AND A
12 GRANDSON ALSO AT RISK FOR HD. I HAVE ANOTHER FRIEND
13 RANDY. I'M LEAVING OUT THE LAST NAMES OBVIOUSLY
14 BECAUSE THIS IS A PUBLIC MEETING. BUT HE'S LEFT A
15 CORPORATE POSITION AS HE HAS SUNK INTO THE DEPTHS OF
16 HUNTINGTON'S. AND HIS WIFE AND CHILDREN WATCH AS
17 HIS DEGRADATION TAKES PLACE.

18 THERE ARE COUNTLESS EXAMPLES OF THIS SORT
19 OF THING. AGAIN, WE REALLY THINK THAT THIS MSC
20 STUDY IS SO IMPORTANT TO THERAPY AND TO GIVING HOPE
21 TO THE HD COMMUNITY. WE REALLY APPRECIATE YOUR
22 POSITIVE VOTE. THANK YOU.

23 CHAIRMAN THOMAS: THANK YOU, RICH.

24 MS. KING: WE JUST HAVE A VERY BRIEF
25 FOLLOW-UP COMMENT TO RICH'S COMMENTS, AND THEN WE'LL

BARRISTERS' REPORTING SERVICE

1 BRING OUR NEXT SPEAKER UP. THANK YOU.

2 YI: HELLO. MY NAME IS YI. I'M A RECENT
3 GRADUATE OF STANFORD AND A MEMBER OF THE BOARD OF
4 DIRECTORS OF THE HUNTINGTON'S DISEASE SOCIETY OF
5 AMERICA, A NORTHERN CALIFORNIA CHAPTER. I
6 UNDERSTAND THE TIME IS BRIEF, SO I'D JUST LIKE TO
7 REAFFIRM EVERYTHING RICH SAID. AS A YOUNG
8 CALIFORNIAN, I'M VERY PROUD OF THE WORK CIRM HAS
9 DONE. AND I'D LIKE TO REALLY GIVE YOU KUDOS FOR ALL
10 THE WORK YOU'VE BEEN DOING FOR DISEASES SUCH AS
11 HUNTINGTON'S DISEASE, WHICH AFFECT SO MANY PEOPLE
12 AND SO MANY CALIFORNIANS. SO THANK YOU.

13 CHAIRMAN THOMAS: THANK YOU VERY MUCH.
14 OUR NEXT SPEAKER, WHO'S WITH THE HEMOPHILIA
15 FOUNDATION OF NORTHERN CALIFORNIA, MERLIN WEDEPOHL.

16 MR. WEDEPOHL: GOOD MORNING. THANK YOU
17 FOR GIVING US A FEW MOMENTS. I'M THE EXECUTIVE
18 DIRECTOR OF THE HEMOPHILIA FOUNDATION OF NORTHERN
19 CALIFORNIA. WE SERVE FOLKS IN NORTHERN CALIFORNIA
20 THAT LIVE WITH THIS CHRONIC, INHERITED, BLEEDING
21 DISORDERS. AND WE HOPE SOMEDAY THAT WE CAN HAVE A
22 CURE, AND YOU FOLKS MAYBE CAN HELP US.

23 I'D LIKE TO INTRODUCE A CARRIER OF A
24 BLEEDING DISORDER WHO CAN TALK TO YOU JUST A FEW
25 MINUTES ABOUT THE IMPACTS OF THE DISEASE IN HER

BARRISTERS' REPORTING SERVICE

1 FAMILY. SHELLY.

2 MS. JAWJAY: GOOD MORNING. THANK YOU FOR
3 HAVING ME. MY NAME IS SHELLY JAWJAY, AND I AM A
4 MOTHER OF TWO SONS, ONE WITH HEMOPHILIA AND ONE
5 WITHOUT HEMOPHILIA. MY 16-YEAR-OLD SON MATTHEW HAS
6 SEVERE HEMOPHILIA.

7 I'M GOING TO GIVE YOU JUST A BRIEF
8 DESCRIPTION OF WHAT HEMOPHILIA IS FOR THOSE OF YOU
9 THAT AREN'T FAMILIAR WITH IT. HEMOPHILIA IS A
10 HEREDITARY GENETIC DISORDER THAT IMPAIRS THE BODY'S
11 ABILITY TO CLOT BLOOD WHICH IS USED TO STOP BLEEDING
12 IN THE BLOOD VESSELS. FACTOR 8 IS THE MOST COMMON
13 OF THE DISORDER, WHICH MY SON HAS, AND THERE'S ALSO
14 A FACTOR 9. I PASSED ON THE GENE TO MATTHEW. I DID
15 NOT PASS IT ON TO MY SON MARK.

16 HEMOPHILIA DOES NOT BLEED MORE INTENSIVELY
17 IN A PERSON WITHOUT IT, BUT IT CAN BLEED MUCH
18 LONGER. SEVERE HEMOPHILIACS, EVEN A MINOR INJURY
19 CAN RESULT IN BLOOD LOSS LASTING DAYS OR WEEKS OR
20 EVEN NEVER HEALING COMPLETELY. IN AREAS SUCH AS THE
21 BRAIN OR INSIDE JOINTS, IT COULD BE PERMANENTLY
22 DAMAGED. IT COULD CAUSE PERMANENT BRAIN DAMAGE, AND
23 IT COULD CAUSE JOINT DAMAGE.

24 THERE'S ALSO ADVERSE REACTIONS TO SOME OF
25 THE MEDICINES. SO, FOR EXAMPLE, MY SON MATTHEW IS 6

BARRISTERS' REPORTING SERVICE

1 FEET 3 AND WEIGHS 220 POUNDS. SO HE'S REQUIRED TO
2 TAKE 4500 UNITS OF A CLOTTING FACTOR TO CLOT HIS
3 BLOOD. THIS CLOTTING FACTOR ACTUALLY COSTS ABOUT
4 \$130,000 A MONTH. AND AS MATTHEW'S WEIGHT
5 INCREASES, SO WILL HIS DOSAGE. SOME CHILDREN
6 DEVELOP INHIBITORS, WHICH MEANS THAT THEIR BODY
7 REJECTS THE FACTOR THAT GOES INTO THEIR BODY, AND SO
8 THEIR BLOOD DOESN'T CLOT AT ALL.

9 CURRENTLY THERE'S NO CURE FOR HEMOPHILIA.
10 SO ANY CONSIDERATION THAT YOU CAN GIVE TO HEMOPHILIA
11 WOULD BE GREATLY APPRECIATED, NOT ONLY BY ME, BUT BY
12 EVERYBODY IN THE WORLD WHO SUFFERS FROM THIS
13 DISEASE. THANK YOU SO MUCH FOR TAKING THE TIME TO
14 LISTEN TO ME. I GREATLY APPRECIATE IT.

15 CHAIRMAN THOMAS: THANK YOU VERY MUCH FOR
16 YOUR COMMENTS.

17 GOING TO PROCEED NOW TO ITEM 6, WHICH IS A
18 PRESENTATION AND DISCUSSION OF CIRM'S TRANSLATIONAL
19 GRANT PORTFOLIO. PAT, WOULD YOU PLEASE COME TO THE
20 PODIUM? THANK YOU.

21 DR. OLSON: THANK YOU VERY MUCH. MR.
22 CHAIRMAN, MEMBERS OF THE BOARD, MEMBERS OF THE
23 PUBLIC, AND COLLEAGUES, I'M LOOKING FORWARD TO
24 UPDATING YOU ON OUR TRANSLATIONAL PORTFOLIO. THIS
25 IS GOING TO BE AN INFORMATIONAL OVERVIEW OF OUR

BARRISTERS' REPORTING SERVICE

1 CURRENT TRANSLATIONAL PORTFOLIO. ACTUALLY I LOOKED
2 BACK. IT'S BEEN OVER 12 MONTHS SINCE WE ACTUALLY
3 TALKED TO YOU AT ALL ABOUT THIS, SO WE THINK THE
4 TIMING IS GOOD.

5 WE WANT THIS TO SERVE AS A BASIS FOR
6 ONGOING DISCUSSIONS ON, FOR EXAMPLE, SUCH TOPICS AS
7 PORTFOLIO PROGRAM PROGRESS, THERAPEUTIC AREA
8 DISTRIBUTION, AND INVESTMENT. WE WANT IT TO BE BOTH
9 A REFERENCE FOR YOU AND TO PROVIDE CONTEXT FOR BOARD
10 DECISIONS.

11 ONE THING THAT I THINK IS IMPORTANT FOR
12 YOU TO THINK ABOUT AS WE GO THROUGH THIS IS WE HAVE
13 ACTUALLY QUITE A TRANSLATIONAL PORTFOLIO RIGHT NOW.
14 AND THE FUNDING WE'RE PROVIDING WILL MOVE THEM
15 FORWARD, NO QUESTION; BUT THE QUESTION IS WILL IT
16 MOVE THEM FORWARD FAR ENOUGH TO GET PICKED UP BY
17 INDUSTRY OR TO GET ACCEPTED AS GENERAL MEDICAL
18 PRACTICE?

19 SO TO ACTUALLY THINK ABOUT, YOU KNOW,
20 AFFECTING PATIENTS, WE HAVE TO CONSIDER WHAT IT'S
21 GOING TO TAKE TO GET THESE THINGS TO A POINT WHERE
22 THEY CAN ACTUALLY MOVE TO THE NEXT STEP TO MOVE
23 FORWARD TO PATIENTS.

24 SO I ASK YOU TO CONSIDER FOR THOSE
25 PROMISING, WELL-PERFORMING, AND COMPETITIVE

BARRISTERS' REPORTING SERVICE

1 PROJECTS, OF WHICH THERE CERTAINLY WILL BE MANY IN
2 OUR PORTFOLIO, WE HAVE TO CONSIDER THAT VERSUS
3 BRINGING ON NEW PROJECTS. THESE ARE JUST
4 DISCUSSIONS.

5 WHAT I'D LIKE TO DO IS THEN I WILL PROVIDE
6 AN OVERVIEW OF THE PORTFOLIO, AND THEN ELLEN WILL GO
7 INTO MORE DETAIL ABOUT CERTAIN PROGRAM AREAS. WHAT
8 I WOULD LIKE TO DO BEFORE I GO FURTHER IS JUST
9 ACKNOWLEDGE RAHAL THAKAR, A SCIENCE ASSOCIATE IN OUR
10 OFFICE, WHO WORKED VERY CLOSELY WITH ELLEN AND I IN
11 PUTTING THIS TOGETHER. SO I REALLY WANT TO THANK
12 HIM AS WELL.

13 IF WE GO TO THE NEXT SLIDE PLEASE, LET'S
14 BE CLEAR ON WHAT WE'RE TALKING ABOUT. THE
15 TRANSLATIONAL PORTFOLIO IS DEFINED AS THOSE PROGRAMS
16 THAT ARE DESIGNED TO MOVE CANDIDATE THERAPEUTICS
17 TOWARDS AND INTO THE CLINIC. SO CURRENTLY THAT IS
18 THOSE PROJECTS THAT ARE FOUND IN THE BOX THAT IS
19 HIGHLIGHTED THERE. THERE ARE EARLY TRANSLATIONAL I
20 AND II PROJECTS, THERE ARE DISEASE TEAM I RESEARCH
21 PROJECTS, AND THERE IS OUR RECENTLY FUNDED TARGETED
22 CLINICAL DEVELOPMENT PROGRAM.

23 I WANT TO REMIND YOU THAT THESE PROJECTS
24 TARGET CERTAIN OUTPUTS. SO IF YOU LOOK AT THE
25 STAGE-SPECIFIC BAR ABOVE, IN OUR EARLY TRANSLATIONAL

BARRISTERS' REPORTING SERVICE

1 PROGRAM, WE WERE TARGETING ONE SET OF PROJECTS,
2 FUNDS WHAT I'LL CALL PRECLINICAL PROOF OF CONCEPT.
3 THEN PROJECTS THAT ARE BETTER FUNDED IN MANY CASES
4 ARE TO ACHIEVE WHAT WE CALL A DEVELOPMENT CANDIDATE.
5 IS A CANDIDATE THERAPEUTIC READY TO MOVE INTO
6 IND-ENABLING WORK? FINALLY, OUR DISEASE TEAM
7 PROJECTS TARGET FILING AN IND, AND OUR DISEASE TEAM
8 I PROGRAM PROJECTS TARGETING AN INVESTIGATIONAL NEW
9 DRUG APPLICATION WITH THE FDA. SO THIS IS TO BEGIN
10 CLINICAL TESTING IN PEOPLE. AND THEN OUR TARGETED
11 CLINICAL DEVELOPMENT PROGRAM ACTUALLY TARGETS
12 COMPLETING A CLINICAL STUDY.

13 SO THESE ARE THE PROJECTS THAT I'M
14 REFERRING TO WHEN I TALK ABOUT OUR TRANSLATIONAL
15 PROGRAM.

16 I WANT TO JUST REMIND YOU THAT OUR
17 TRANSLATIONAL PROGRAM IS STRENGTHENED BY
18 PARTICIPATION OF OUR COLLABORATIVE FUNDING PARTNERS.
19 SO OF THE PROGRAMS THAT ARE PART OF THE CURRENT
20 PORTFOLIO, THE PARTNERS THAT ARE INVOLVED ARE THE
21 CANCER STEM CELL NETWORK OF CANADA, CSCC, BMBF FROM
22 GERMANY, THE STATE OF VICTORIA, AND ACTUALLY
23 MARYLAND, WHO HAS CONTRIBUTED TO SUPPLEMENTAL
24 FUNDING OF SOME OF OUR PROGRAMS.

25 WE ACTUALLY HAVE CFP PARTICIPATION

BARRISTERS' REPORTING SERVICE

1 DIRECTLY INTO TEN OF OUR PROGRAMS, INTO TEN OF OUR
2 TRANSLATIONAL PROGRAMS, AND INTO THREE AS
3 SUPPLEMENT.

4 SO IF I COULD HAVE THE NEXT SLIDE, PLEASE.
5 THE FIRST POINT I WANT YOU TO TAKE AWAY FROM THIS
6 SLIDE IS THAT CIRM CURRENTLY HAS 44 PROJECTS IN ITS
7 TRANSLATIONAL PORTFOLIO WITH A POTENTIAL FUNDING
8 COMMITMENT APPROVED BY THIS BOARD OF 365 MILLION.
9 THIS SLIDE DOES SHOW THE TIMELINE FOR GROWTH. I
10 WOULD NOTE THAT THE ICOC FIRST AWARDED MONEY, AND I
11 WANT TO POINT OUT HERE THAT THE YEAR IS WHEN YOU AS
12 A BOARD APPROVED FUNDING. PROJECTS BECAUSE OF
13 PREFUNDING ADMINISTRATIVE REVIEW TYPICALLY START
14 THREE TO SIX MONTHS AFTER THAT.

15 SO THE FIRST TIME THAT THE BOARD ACTUALLY
16 APPROVED MONEY FOR A TRANSLATIONAL PROGRAM WAS THE
17 FIRST DISEASE TEAM PLANNING AWARDS. THAT WAS A
18 MILLION DOLLARS IN 2008. BUT IT WAS ACTUALLY REALLY
19 IN 2009, BASICALLY ONLY THREE YEARS AFTER CIRM FIRST
20 FUNDED ANYTHING, THAT WE STARTED FUNDING OUR
21 TRANSLATIONAL PORTFOLIO FOR REAL. AS YOU CAN SEE,
22 IN 2009 THE DT I DEVELOPMENT CANDIDATE PROJECTS WERE
23 FUNDED. THERE WERE EIGHT OF THOSE. THERE WERE 14
24 DISEASE TEAM I PROGRAMS THAT YOU APPROVED IN THERE.
25 AND THEN IN 2010 YOU MAY RECALL IN OCTOBER OF LAST

BARRISTERS' REPORTING SERVICE

1 YEAR YOU APPROVED THE DT II PROGRAM, BOTH PROOF OF
2 CONCEPT STUDIES AND DEVELOPMENT CANDIDATE PROJECTS.
3 AND THEN JUST THIS YEAR YOU APPROVED OUR FIRST EVER
4 CLINICAL PROGRAM. SO THIS IS YEAR TO DATE.

5 I JUST WANT TO AGAIN REMIND YOU THAT THIS
6 SHOWS YOU THE DISTRIBUTION OF OUTCOMES BY PROJECT
7 AND BY DOLLARS. AS YOU GO TOWARDS -- IF YOU LOOK AT
8 THE KEY ON THE BOTTOM, IT GOES TO THE MORE EXPENSIVE
9 PROGRAMS, AND IT ALSO MARCHES DOWN THE
10 STAGE-SPECIFIC PIPELINE. SO, FOR EXAMPLE, WE HAVE
11 NINE PROJECTS THAT TARGET PRECLINICAL PROOF OF
12 CONCEPT, AND WE'RE INVESTING ROUGHLY ALMOST 17
13 MILLION IN THOSE PROJECTS. AND CONTRAST THAT WITH
14 OUR DISEASE TEAM PROGRAM WHERE WE HAVE 14 PROJECTS
15 TARGETING AN INVESTIGATIONAL NEW DRUG APPLICATION
16 THAT WE'RE INVESTING 225 MILLION IN. THAT'S ROUGHLY
17 20 MILLION -- I MEAN ON AVERAGE THEY COULD TAKE UP
18 TO 20 MILLION IN THAT CASE.

19 SO THIS HIGHLIGHTS THE FACT THAT AS THE
20 RESEARCH MOVES DOWN THE DEVELOPMENT PIPELINE, IT
21 BECOMES MORE EXPENSIVE, AND IT'S IMPORTANT FOR
22 PEOPLE TO REMEMBER THAT. I WOULD NOTE ALSO THAT
23 HERE YOU CAN SEE HERE THAT WE HAVE ROUGHLY \$49
24 MILLION IN LEVERAGE FROM OUR COLLABORATIVE FUNDING
25 PARTNER PROGRAMS, PARTICULARLY IN PROJECTS THAT --

BARRISTERS' REPORTING SERVICE

1 WELL, ACTUALLY IN ALL STAGES EXCEPT WE CURRENTLY
2 DON'T HAVE ANY COLLABORATIVE FUNDING PARTNER
3 PARTICIPATION IN A CLINICAL PROGRAM, AT LEAST IN THE
4 ONE THAT WE'VE FUNDED TO DATE. SO THAT'S WHAT I
5 WANTED TO SAY ABOUT THAT.

6 NEXT SLIDE, PLEASE. I THINK IT'S
7 IMPORTANT TO REMEMBER THAT WE HAVE INVESTED BROADLY
8 ACROSS THE STEM CELL TYPES. SO IF YOU LOOK AT THIS
9 GRAPH, IT HIGHLIGHTS THE FACT THAT WE HAVE INVESTED
10 IN TISSUE OR SO-CALLED ADULT STEM CELLS. WE HAVE
11 INVESTED IN ENDOGENOUS STEM CELLS. WE HAVE INVESTED
12 IN CANCER STEM CELLS. BUT CERTAINLY IN KEEPING WITH
13 OUR ORIGINAL MANDATE AND WITH THE PRIORITY THAT THIS
14 BOARD HAS AGREED THROUGH THE CONCEPT PROPOSAL, WE
15 HAVE ALSO FOCUSED ON PROJECTS THAT UTILIZE HUMAN
16 EMBRYONIC STEM CELLS. AND NOW IT'S THE MORE NEWER
17 TECHNOLOGY FOR LOOKING AT PLURIPOTENT STEM CELLS,
18 IPSC.

19 SO YOU CAN SEE THAT WE INVEST NOT JUST IN
20 PLURIPOTENT AND HUMAN EMBRYONIC STEM CELLS, BUT WE
21 DO INVEST IN OTHER STEM CELL AND PROGENITOR TYPES.

22 IF I COULD SEE THE NEXT SLIDE, WHAT THIS
23 DOES IS HIGHLIGHTS THAT IF YOU LOOK AT THE
24 DEVELOPMENT CANDIDATE PART OF OUR EARLY
25 TRANSLATIONAL PROGRAM COMPARED TO OUR DISEASE TEAM

BARRISTERS' REPORTING SERVICE

1 OR TARGETED CLINICAL DEVELOPMENT, THAT CERTAINLY AT
2 THE EARLY STAGE OF RESEARCH, WE'RE LOOKING AT
3 PERHAPS THE MORE NOVEL STRATEGIES. WE HAVE MORE
4 PROGRAMS IN IPSC THERE. WE'RE LOOKING AT SOME
5 ENDOGENOUS EFFORTS. SO THE BREAKDOWN IS A LITTLE
6 BIT DIFFERENT IF YOU LOOK AT THE EARLIER STAGE OF
7 RESEARCH.

8 THE NEXT SLIDE, PLEASE. WHAT THIS DOES IS
9 IT HIGHLIGHTS NOT ONLY ARE WE INVESTING IN DIFFERENT
10 STEM AND PROGENITOR CELL TYPES, BUT WE'RE ALSO
11 FUNDING PROJECTS THAT SPAN A WIDE VARIETY OF VERY
12 INNOVATIVE THERAPEUTIC STRATEGIES. AND THAT'S
13 ACTUALLY AN IMPORTANT THING TO KNOW. AND THE REASON
14 WE'RE DOING THAT IS BECAUSE, FOR ONE THING, WE
15 BELIEVE THAT THESE KIND OF INNOVATIVE REGENERATIVE
16 STRATEGIES, THESE CELL THERAPIES OR GENETICALLY
17 MODIFIED CELL THERAPIES CAN ACTUALLY OFFER
18 OPPORTUNITIES FOR CURES RATHER THAN JUST TREATMENT
19 OF DISEASE.

20 BUT THESE NEW INNOVATIVE STRATEGIES REALLY
21 DO ENTAIL WORKING CLOSELY WITH THE FDA BECAUSE IT'S
22 ONE THING -- THEY KNOW HOW TO -- THEY'VE HAD LOTS OF
23 EXPERIENCE WITH MONOCLONAL ANTIBODIES. THEY'VE HAD
24 LOTS OF EXPERIENCE WITH SMALL MOLECULES. BUT WHEN
25 YOU START TALKING ABOUT CELLS THAT ARE NOT MINIMALLY

BARRISTERS' REPORTING SERVICE

1 MANIPULATED, THAT UNLIKE BONE MARROW WHERE YOU JUST
2 TAKE IT OUT, WASH IT, PUT IT IN A BAG, FREEZE IT,
3 BRING IT TO A PATIENT, WASH IT, AND INJECT, THESE
4 ARE NOT THAT. THESE ARE EXPAND, DIFFERENTIATE. SO
5 THERE'S A LOT MORE STEPS INVOLVED, AND THESE ARE
6 THINGS THAT THE FDA, THEY'RE DEFINITELY LISTENING TO
7 US, BUT WE'RE ALL TALKING ABOUT IT. IT'S A NEW
8 PATH. SO I JUST WANT TO EMPHASIZE THAT WE'RE
9 DOING -- THAT BECAUSE OF THE KIND OF PORTFOLIO WE
10 HAVE, IT IS CRITICAL FOR US TO KEEP A DIALOGUE GOING
11 WITH THEM.

12 I WOULD ALSO NOTE THAT WE DO HAVE PROGRAMS
13 THAT ARE FOCUSED ON THE MORE CLASSIC AREAS THAT TEND
14 TO TARGET CANCER STEM CELLS.

15 IF I COULD HAVE THE NEXT SLIDE, AGAIN,
16 THIS DOES THE SAME BREAKDOWN BY LOOKING AT THE
17 EARLIER STAGE PROGRAMS. AND YOU CAN ACTUALLY SEE
18 HERE IT'S NOT ALL THAT DIFFERENT.

19 IF I COULD HAVE THE NEXT SLIDE, PLEASE.
20 OUR PROJECTS SPAN A VARIETY OF THERAPEUTIC AREAS. I
21 REMIND YOU THIS IS A REFLECTION OF WHAT -- SO WE'VE
22 BEEN VERY CATHOLIC IN OUR YOU TELL US WHAT YOU THINK
23 IS READY. AND SO THIS REFLECTS WHAT OUR APPLICANTS
24 HAVE SUBMITTED, WHAT OUR REVIEWERS HAVE DEEMED
25 SCIENTIFICALLY AND PROGRAMMATICALLY MERITORIOUS, AND

BARRISTERS' REPORTING SERVICE

1 WHAT YOU THE BOARD HAS BELIEVED TO BE WORTH FUNDING.

2 OUR INVESTMENT HERE HAS BEEN LEVERAGED, AS
3 I NOTED BEFORE, BY CFP INVESTMENT OF 49 MILLION,
4 PARTICULARLY IN THE CANCER AREA, BUT ALSO IN THE
5 NEUROLOGIC AREA, IN ALZHEIMER'S DISEASE, PARKINSON'S
6 DISEASE, IN CANAVAN'S DISEASE, AND EYE DISEASE, AND
7 IN THE HEALING OF DIABETIC ULCERS.

8 I SHOULD ALSO REMIND YOU THAT THE FACT
9 THAT THERE ARE FEWER PROJECTS OR LESSER INVESTMENT
10 IN ONE AREA REALLY MAY MEAN WHERE THE SCIENCE IS.
11 AS LIKELY AS NOT, IT'S WHERE THE FIELD IS AND IS
12 READY TO GO.

13 AT THIS POINT I'D LIKE TO THANK YOU FOR
14 YOUR ATTENTION AND TURN IT OVER TO ELLEN, WHO WILL
15 CONTINUE THE DISCUSSION.

16 DR. FEIGAL: THANK YOU SO MUCH, PAT. I
17 JUST WANT TO -- I'M A PC PERSON, SO I'M GOING TO GO
18 BACK TO THE PC. AND MAYBE, MELISSA, YOU CAN PUT IT
19 UP HERE FOR ME. BUT BASICALLY WHAT YOU'VE HEARD
20 ABOUT IS REALLY OUR FINANCIAL INVESTMENTS IN TERMS
21 OF WHERE CIRM IS INVESTING THEIR MONEY SINCE EARLY
22 2009.

23 AS THE INSTITUTE STARTED, AS THIS AGENCY
24 GOT GOING, THERE WAS THE EMPHASIS ON THE
25 FOUNDATIONAL RESEARCH, ON THE BASIC BIOLOGY, ON THE

BARRISTERS' REPORTING SERVICE

1 RESEARCH LEADERSHIP, AND PUTTING THE FACILITIES
2 TOGETHER IN WHICH THE RESEARCH COULD BE DONE. SINCE
3 2009 WE'VE REALLY MOVED FORWARD TO ADVANCE THAT
4 SCIENCE TOWARDS AND INTO THE CLINIC. SO I'M NOT
5 GOING TO RUN THROUGH EACH AND EVERY SLIDE. THIS IS
6 REALLY A REFERENCE FOR YOU TO USE IT IN CONTEXT AS
7 YOU'RE CONSIDERING DECISIONS THAT YOU ARE MAKING, AS
8 INITIATIVES COME FORWARD, AND RECOMMENDATIONS COME
9 FORWARD TO YOU TO GIVE YOU A SENSE OF WHERE WE ARE
10 WITH OUR CURRENT FUNDING AND PERHAPS USE IT AS A
11 TOOL, NOT THE TOOL, IN TERMS OF MAYBE HELPING US
12 DECIDE WHAT FUTURE DIRECTION SHOULD WE GO IN.

13 SO THIS WAS THE FIRST OF MULTIPLE
14 DISCUSSIONS THAT WE WOULD HAVE WITH YOU, OUR BOARD,
15 TO TALK ABOUT WHERE WE'RE FUNDING AND WHAT ARE SOME
16 OF THE TYPES OF THINGS THAT WE'D LIKE TO DO.

17 I WANT TO ALSO COMMUNICATE THAT WE'RE
18 ACTIVELY MANAGING THE RESEARCH, THAT WE'RE WORKING
19 IN A VERY INTERACTIVE WAY WITH THE RESEARCH TEAMS.
20 PRIOR TO AWARDING OF ALL OF THIS FUNDING, WE'RE
21 MUTUALLY AGREEING UPON WHAT THE PROGRESS WOULD LOOK
22 LIKE. WHAT WOULD SUCCESS LOOK LIKE? WHAT ARE THE
23 PROGRESS MILESTONES? WHAT ARE THE CRITERIA FOR
24 MOVING FORWARD? AND COME TO AGREEMENT BEFORE WE
25 EVEN LET THAT FIRST DOLLAR GET SPENT ON WHAT IT IS

BARRISTERS' REPORTING SERVICE

1 WE EXPECT TO SEE. DURING THE CONDUCT OF THE
2 RESEARCH HAVE INTERACTIVE, ONGOING DISCUSSIONS
3 BETWEEN THE SCIENCE OFFICER AND THE RESEARCH TEAMS
4 WITH UPDATES ON THE INTERVAL PROGRESS ON A QUARTERLY
5 BASIS AND OVERALL ANNUAL PROGRESS UPDATES.

6 AND ALSO WHAT WE JUST INITIATED THIS YEAR
7 WITH OUR DISEASE TEAMS AND OUR CLINICALLY ORIENTED
8 TEAMS ARE CLINICAL DEVELOPMENT ADVISORY MEETINGS
9 THAT ARE GOING TO MEET WITH ALL OF OUR 14 DISEASE
10 TEAMS AND ANY OF OUR FUTURE FUNDED DISEASE TEAMS AND
11 CLINICAL TRIAL TEAMS ON HOW THEY'RE DOING WITH THEIR
12 MILESTONES OF THE KEY MILESTONES SO THAT IT'S NOT
13 JUST INTERNAL SCIENCE STAFF WITH THEIR EXPERTISE,
14 BUT WE'RE ALSO BRINGING IN EXTERNAL EXPERTISE TO
15 HELP MAKE SURE THAT WE'RE DOING EVERYTHING WE CAN TO
16 MAKE OUR RESEARCHERS AND INVESTMENT A SUCCESS. AND
17 IF IT'S NOT GOING IN THE RIGHT TRAJECTORY, THAT
18 WE'RE NOTICING IT EARLY AND DOING WHAT WE CAN TO DO
19 COURSE CORRECTIONS OR MAKE REFINEMENTS.

20 IN ADDITION, THOUGH, TO WHAT WE FUND IN
21 THE RESEARCH, WE'RE ALSO WORKING ACTIVELY WITH THE
22 PATHWAY. WE'RE WORKING WITH THE FDA. WE HAVE
23 EDUCATIONAL WEBINARS, WE HAVE ROUNDTABLES THAT WE
24 WORK WITH THEM ON ON HOW CAN WE MOVE OUR
25 TRANSLATIONAL PROGRAMS FORWARD. FOR EXAMPLE, WE'VE

BARRISTERS' REPORTING SERVICE

1 HAD EDUCATIONAL SESSIONS ON THE CELL IMAGING ISSUES
2 WITH TRYING TO GET THESE CELL THERAPIES INTO HUMANS.
3 DO THE CELLS EVEN SURVIVE? IF THEY SURVIVE, DO THEY
4 MAINTAIN THE CHARACTERISTICS THAT WE THOUGHT THEY
5 WERE GOING TO HAVE WHEN WE PUT THEM INTO A HUMAN
6 BEING? AND ARE THEY GETTING TO THE RIGHT ANATOMIC
7 LOCATION SO THAT THEY CAN ACTUALLY BE FUNCTIONAL?
8 THESE ARE CRITICAL ISSUES THAT WE NEED TO WORK ON AS
9 WE ARE TRYING TO HELP OUR INVESTIGATORS MOVE FORWARD
10 WITH THE RESEARCH.

11 WE'RE ALSO HAVING A WEBINAR EARLY NEXT
12 MONTH ON SEPTEMBER 12TH ON TISSUE ENGINEERING AND
13 SCAFFOLDING. THIS IS A VERY CRITICAL PLATFORM AREA
14 TO CONSIDER. AND WE'RE GOING TO HAVE SOME EXPERTS
15 IN THE FIELD AND THE FDA TALKING ABOUT THESE ISSUES
16 AND TRYING TO GET THIS KIND OF PLATFORM MOVING
17 FORWARD INTO PRODUCTS.

18 IN ADDITION, WE'VE HAD ROUNDTABLES TALKING
19 ABOUT PRECLINICAL ANIMAL MODELS. WE HAVE AN
20 UPCOMING MEETING THAT WE'LL BE ANNOUNCING SOON ON
21 SOME OF THE IMMUNE RESPONSE ISSUES THAT WE NEED TO
22 THINK ABOUT AS WE'RE USING ALLOGENEIC CELLS, HUMAN
23 CELLS, AND PUTTING THEM INTO PEOPLE. AND WHAT KIND
24 OF IMMUNE RESPONSE AND WHAT KINDS OF TREATMENTS DO
25 WE NEED TO BE THINKING ABOUT AS WE'RE MOVING THAT

BARRISTERS' REPORTING SERVICE

1 FORWARD?

2 SO I WANTED TO LET YOU KNOW WE'RE WORKING
3 ON ALL THESE OTHER PATHWAYS AS WELL AS WE'RE TRYING
4 TO MOVE OUR RESEARCH PROGRAMS FORWARD. SIMILARLY,
5 WE HAVE ACTIVE, ONGOING INTERACTIONS, DIALOGUES, AND
6 EDUCATION WITH OUR EARLY TRANSLATIONAL PROGRAM.
7 THIS IS JUST A SNIPPET. WE HAVE MOST OF OUR
8 RESEARCH, JUST TO SUMMARIZE A BIT OF WHAT PAT SAID,
9 WE HAVE 44 TRANSLATIONAL PROGRAMS. TWENTY-NINE OF
10 THOSE PROGRAMS ARE FOCUSED ON IDENTIFYING A
11 DEVELOPMENT CANDIDATE OR DEVELOPING PROOF OF
12 CONCEPT. FOURTEEN DISEASE TEAMS ARE FOCUSED ON
13 TAKING AN IDENTIFIED CANDIDATE AND MOVING IT FORWARD
14 TOWARDS THE CLINIC FOR THOSE FIRST-IN-HUMAN CLINICAL
15 STUDIES. AND THEN WE HAVE ONE FUNDED AND ACTIVELY
16 ENROLLING CLINICAL TRIAL IN PATIENTS WHO ARE
17 PARAPLEGIC WITH A NOVEL HUMAN EMBRYONIC-DERIVED STEM
18 CELL, AN OLIGODENDROCYTE PROGENITOR CELL. WE HAVE
19 THREE PATIENTS ON THAT TRIAL.

20 SO WE'RE MOVING THE SCIENCE FORWARD BOTH
21 IN TERMS OF THE SCIENTIFIC ADVANCES, BUT ALSO
22 ADVANCING IT TOWARDS THE CLINIC AND INTO THE CLINIC.

23 THIS IS JUST A SNIPPET THAT YOU LOOK AT
24 LATER, BUT A LOT OF OUR FUNDING IS GOING TO
25 NEUROLOGIC DISORDERS, PARTICULARLY TO

BARRISTERS' REPORTING SERVICE

1 NEURODEGENERATIVE DISEASES. THIS IS JUST A LISTING
2 OF WHERE WE'RE PUTTING OUR MONEY IN THE NEUROLOGIC
3 DISORDERS AREA. SO YOU CAN SEE FOR SOMETIMES YOU
4 CAN SEE THAT SOME OF THE INJURY SEEMS TO BE THE SAME
5 FOCUS, BUT WE'RE USING A VERY DIFFERENT APPROACH.
6 IN THE FIRST ONE WE HAVE A PHASE I CLINICAL TRIAL
7 USING THE HUMAN EMBRYONIC-DERIVED STEM CELLS, THE
8 OLIGODENDROCYTE PROGENITOR CELLS. IN ANOTHER WE'RE
9 LOOKING AT CAUDA EQUINA. WE'RE LOOKING AT VERY LOW
10 IN THE SPINAL CORD, A PARTICULAR INJURY, AND THERE
11 THE APPROACH IS LOOKING AT MOTIVE AND AUTONOMIC
12 PRECURSOR NEURONS. WE'RE LOOKING AT STROKE. WE'RE
13 LOOKING AT TRAUMATIC BRAIN INJURY.

14 AND ON THE RIGHT-HAND SIDE, WHAT WE'VE
15 TRIED TO GIVE YOU IS A SNIPPET OF THE TYPES OF
16 APPROACHES, THE STEM CELL PLATFORM THAT WE'RE USING,
17 AND WHETHER IT'S AUTOLOGOUS OR ALLOGENEIC, WHETHER
18 IT'S FROM THE PATIENT'S OWN BODY OR WHETHER IT'S
19 FROM ANOTHER HUMAN BEING. AND WE'RE TRYING TO
20 MANIPULATE THAT, USE THAT SO IT CAN BE HELPFUL IN
21 THAT PATIENT.

22 MORE OF THE NEUROLOGIC DISORDERS THAT
23 WE'RE WORKING ON, YOU CAN SEE THE BROAD SPECTRUM.
24 WE'RE WORKING IN AMYOTROPHIC LATERAL SCLEROSIS. WE
25 HAVE SEVERAL GRANTS IN PARKINSON'S DISEASE TRYING TO

BARRISTERS' REPORTING SERVICE

1 IDENTIFY EITHER A DEVELOPMENT CANDIDATE OR A PROOF
2 OF CONCEPT. YOU CAN SEE THE DIFFERENT APPROACHES.
3 MANY OF THEM ARE REALLY TRYING TO LOOK AT THOSE
4 CELLS THAT CAN DELIVER THE DOPAMINERGIC ENTITY THAT
5 REALLY NEEDS TO BE THERE IN ORDER FOR THE NEURONS TO
6 FUNCTION APPROPRIATELY.

7 WE'RE ALSO WORKING ON HUNTINGTON'S
8 DISEASE, AS WAS ARTICULATED SO WELL EARLY TODAY. WE
9 DO HAVE AN INTEREST AND WE ARE FUNDING DEVELOPMENT
10 CANDIDATES LOOKING AT HUNTINGTON'S DISEASE WITH
11 MESENCHYMAL CELLS THAT ARE ENGINEERED TO EXPRESS
12 PARTICULAR RNA'S THAT CAN TARGET THAT MUTANT MRNA.
13 THIS IS INJECTED INTRACRANIALY. WE'RE ALSO LOOKING
14 AT HUMAN EMBRYONIC-DERIVED NEURAL STEM OR
15 NEUROPROGENITOR CELLS FOR TRANSPLANTATION.

16 SO THIS IS ALSO JUST SO YOU CAN SEE THE
17 THINGS THAT WE'RE LOOKING AT, NOT JUST TODAY, BUT
18 WHAT WE HAVE ALREADY INVESTIGATED AND HAVE ACTIVELY
19 ONGOING.

20 WE HAVE CANAVAN'S DISEASE. THIS OCCURS
21 IN INFANTS. IT'S A VERY LETHAL DISEASE. IT'S
22 REALLY LOOKING AT THE PATIENT'S OWN CELLS TO
23 GENETICALLY MODIFY THEM TO CORRECT THE MUTANT
24 MUTATION IN THAT DISEASE ENTITY, CORRECTING IT AND
25 THEN TRYING TO GIVE IT BACK TO THE PATIENT. THIS IS

BARRISTERS' REPORTING SERVICE

1 AT THE VERY EARLY STAGE, THOUGH, AT PROOF OF
2 CONCEPT. WE'RE WORKING ON AUTISM. WE'RE WORKING ON
3 REFRACTORY EPILEPSY AND ON SPINAL MOTOR ATROPHY.

4 ANOTHER LARGE PART OF OUR PORTFOLIO IS IN
5 EYE DISEASES. HERE YOU CAN SEE WE HAVE FIVE
6 DIFFERENT AWARDS TO THE TUNE OF ABOUT 34 MILLION,
7 AND THREE OF THESE THERAPEUTIC AREAS ARE LOOKING AT
8 MACULAR DEGENERATION. THIS IS A CLINICAL ENTITY
9 THAT INCREASES WITH AGE. IT'S A MAJOR CAUSE OF
10 BLINDNESS. WE REALLY HAVE NO TREATMENT FOR THE DRY
11 MACULAR DEGENERATION. IN ADDITION, WE'RE LOOKING AT
12 CORNEAL INJURY AND ALSO WITH GENETICALLY INHERITED
13 DISEASE CALLED RETINITIS PIGMENTOSA, WHICH ALSO
14 CAUSES BLINDNESS.

15 SO THIS IS OUR PORTFOLIO OF EYE DISEASES.
16 ONCE AGAIN, I'M NOT GOING TO GO THROUGH THEM ONE BY
17 ONE, BUT YOU CAN SEE THE GOAL. WE'RE EITHER LOOKING
18 AT PROOF OF CONCEPT, WE'RE LOOKING AT A DEVELOPMENT
19 CANDIDATE, OR WE'RE LOOKING AT A DISEASE TEAM WHOSE
20 GOAL IS TO ACTUALLY MOVE THIS INTO THE
21 FIRST-IN-HUMAN CLINICAL TRIALS. WE HAVE A TEAM
22 WORKING ON FUNCTIONALLY POLARIZED HUMAN
23 EMBRYONIC-DERIVED STEM CELLS WHERE IT'S TRYING TO
24 REPLACE THAT RETINAL PIGMENT EPITHELIAL MONOLAYER AT
25 THE BACK OF THE EYE. THEY'RE IMPLANTING THESE CELLS

BARRISTERS' REPORTING SERVICE

1 ONTO A SCAFFOLD, AND THEY'RE GOING TO SURGICALLY
2 IMPLANT THESE BELOW THE RETINA. AND THIS IS ON ITS
3 WAY. THEY'RE AT THEIR 12- TO 18-MONTH MILESTONE
4 RIGHT NOW IN A FOUR-YEAR AWARD, BUT THIS IS MOVING
5 FORWARD.

6 WE ALSO HAVE AUTOLOGOUS APPROACHES, ONCE
7 AGAIN, LOOKING AT RETINAL PIGMENT EPITHELIAL CELLS.
8 AND THEN YOU CAN SEE THE VARIETY OF OTHER APPROACHES
9 THAT WE'RE USING WITH DIFFERENT SPECTRUM OF EYE
10 DISORDERS WHICH CAUSE BLINDNESS. SO THIS IS A VERY
11 IMPORTANT DISEASE AREA FOR US TO BE LOOKING IN.

12 CANCER IS ALSO MAKING UP A LARGE PORTFOLIO
13 OF WHERE CIRM IS CURRENTLY INVESTING. SO THERE ARE
14 EIGHT DIFFERENT AWARDS TO THE TUNE ABOUT \$107
15 MILLION FOCUSED ON CANCER. FOUR OF THEM IN THE
16 LIQUID TUMORS, THE LEUKEMIAS, THE CHRONIC AND THE
17 ACUTE, FOR A VARIETY OF DIFFERENT TYPES OF SOLID
18 TUMORS, WITH OVARIAN CANCER, WITH COLON CANCER, WITH
19 GLIOBLASTOMA.

20 THIS, ONCE AGAIN, IS JUST SHOWING YOU THE
21 DIFFERENT DISEASES THAT WE'RE LOOKING AT, WHERE WE
22 ARE IN THE PRODUCT DEVELOPMENT SCHEME. ARE WE EARLY
23 AT IDENTIFYING A DEVELOPMENT CANDIDATE? ARE WE
24 FARTHER ALONG IN TRYING TO MOVE IT FORWARD TO THOSE
25 FIRST-IN-HUMAN TRIALS?

BARRISTERS' REPORTING SERVICE

1 YOU CAN ALSO SEE WE HAVE A VARIETY OF
2 PLATFORMS HERE PAT MENTIONED. WE'RE GOING WHERE THE
3 SCIENCE IS IN TERMS OF THE STEM CELL APPROACH, BUT
4 YOU CAN SEE THIS HAS REALLY BEEN AN EXPLORATORY
5 PHASE FOR CIRM. WE'RE LOOKING AT A LOT OF DIFFERENT
6 APPROACHES HERE. WE'RE LOOKING AT SMALL MOLECULES,
7 WE'RE LOOKING AT MONOCLONAL ANTIBODIES IN THESE
8 VARIETY OF APPROACHES. ALL OF THEM WERE EITHER
9 ADVANCED BY STEM CELL SCIENCE OR THEY'RE TARGETING
10 THE LEUKEMIA STEM CELL.

11 IN THE SOLID TUMORS, AS I SAID, THREE OF
12 THESE ARE REALLY FOCUSED ON GETTING INTO
13 FIRST-IN-HUMAN CLINICAL TRIALS. GLIOBLASTOMA IS
14 REALLY A VERY LETHAL DISEASE OF THE BRAIN. THERE
15 REALLY ARE NO GOOD THERAPIES. THERE ARE SOME
16 FDA-APPROVED THERAPIES, BUT THEY'RE MODESTLY
17 EFFECTIVE. WE KNOW WE NEED TO DO A LOT MORE. SO
18 THIS IS SHOWING YOU SOME OF THE DIFFERENT APPROACHES
19 THAT WE'RE USING TO TARGET THOSE PARTICULAR TUMORS.
20 ALL OF THESE ARE PURPORTING TO LOOK AT THE CANCER
21 STEM CELL. THEY'RE USING A VARIETY OF APPROACHES,
22 EITHER SMALL MOLECULES, EITHER ALLOGENEIC,
23 HUMAN-DERIVED NEUROPROGENITOR STEM CELLS, OR THEY'RE
24 USING THE STEM CELL SCIENCE TO DELIVER THE
25 CHEMOTHERAPY.

BARRISTERS' REPORTING SERVICE

1 WITH THE OTHER ALSO LARGE IMPORTANCE TO
2 CIRM'S PORTFOLIO IS IN THE AREA OF HIV/AIDS. BACK
3 IN THE LATE '80S WHEN THE FIRST ANTIRETROVIRAL DRUG
4 WAS DEVELOPED FOR HIV/AIDS, AIDS WAS ACTUALLY A
5 LETHAL DISEASE. THIS WAS BACK IN THE EARLY,
6 MID-1980S. IT WASN'T TILL 1987 THAT AZT WAS
7 IDENTIFIED. AND THEN WITH ONGOING SCIENCE IN THE
8 MID-1990S, THERE WERE A VARIETY OF PROTEASE
9 INHIBITORS AND OTHER TYPES OF THERAPIES THAT WERE
10 DEVELOPED THAT GREATLY DECREASED THE COMPLICATIONS
11 FROM AIDS, IMPROVED THE LIFE SPAN, BUT STILL IT
12 TURNED FROM LETHAL DISEASE THEN TO A CHRONIC
13 DISEASE.

14 AND WITH THOSE DIFFERENT TYPES OF
15 THERAPIES, THERE'S A VARIETY OF SIGNIFICANT SIDE
16 EFFECTS THAT OCCUR. THERE'S ALSO A TREMENDOUS NEED
17 TO BE VERY ADHERENT, VERY COMPLIANT WITH THE REGIMEN
18 OF THESE DRUGS. IT'S A COMPLEX REGIMEN, AND
19 RESISTANCE STILL DEVELOPS TO THE THERAPIES THAT ARE
20 THERE.

21 IN 2009 THERE WAS A VERY IMPORTANT
22 EXPERIMENT IN WHAT WE CALLED THE BERLIN PATIENT, WHO
23 WAS A PATIENT WITH HIV/AIDS WHO ALSO HAD A
24 MALIGNANCY. THIS PATIENT WAS TRANSPLANTED WITH
25 CELLS FROM A DONOR WHO HAD A DELETION IN WHAT'S

BARRISTERS' REPORTING SERVICE

1 CALLED CCR5 AREA OF THE GENE. THIS MUTATION IN THE
2 GENE REALLY ALLOWS THE PERSON WHO'S CARRYING THAT
3 GENE TO HAVE RESISTANCE TO MANY TYPES OF HIV
4 INFECTION. THAT PATIENT STILL HAS NO EVIDENCE OF
5 SIGNIFICANT VIRAL LOAD, AND SO IT'S CALLED CURE WITH
6 QUOTES AROUND IT. VERY INTERESTING CLINICALLY, VERY
7 INTERESTING SCIENTIFICALLY; HOWEVER, WE KNOW THAT
8 THE NUMBER OF PATIENT DONORS WHO HAVE THIS CCR5
9 MUTATION IS GOING TO BE EXTREMELY LOW. WE NEEDED TO
10 REALLY THINK OF ANOTHER APPROACH IN TERMS OF HOW TO
11 SEE IF WE CAN MAKE MORE PATIENTS WITH AGE BENEFIT IN
12 THE ATTEMPT TO GO FOR THE CURE.

13 CIRM IS FUNDING STUDIES AND APPROACHES TO
14 TRY TO UTILIZE THIS VERY INNOVATIVE PILOT FINDING
15 FROM A SINGLE PATIENT AND TRY TO THINK OF A WAY OF
16 TRANSLATING IT INTO A WAY THAT MIGHT BE EXPORTABLE
17 TO A BROADER POPULATION OF PATIENTS. SO WE'RE
18 LOOKING AT TWO DIFFERENT TYPES OF APPROACHES, TRYING
19 TO MAKE THE CCR5 DYSFUNCTIONAL SO THAT IT WON'T
20 ALLOW HIV ENTRY.

21 WE'RE ALSO LOOKING IN BONE DISORDERS WITH
22 THE USE OF ADULT PERIVASCULAR STEM CELLS AND USING A
23 PROTEIN THAT CAN INDUCE THE BONE TO GROW UTILIZING
24 AN ACELLULAR SCAFFOLD. WE'RE ALSO LOOKING AT
25 OSTEOPOROSIS, A VERY COMMON DISORDER, PARTICULARLY

BARRISTERS' REPORTING SERVICE

1 IN POST MENOPAUSAL WOMEN, BUT ALSO IN MEN WHO ARE
2 TREATED WITH A VARIETY OF ENDOCRINE MANIPULATIONS
3 FOR THEIR PROSTATE CANCER. SO WE'RE FINDING THAT
4 COMPLICATIONS FROM OSTEOPOROSIS, NOT JUST IN WOMEN,
5 BUT ALSO IN MEN IS BEING SIGNIFICANTLY RECOGNIZED.
6 ALTHOUGH THERE ARE COMMERCIALLY AVAILABLE AGENTS OUT
7 THERE RIGHT NOW, THERE ARE ATTEMPTS TO FIND OTHER
8 APPROACHES TO TRY AND HAVE A MORE LASTING IMPACT ON
9 THIS DISEASE.

10 I'M NOT GOING TO GO THROUGH ALL THESE
11 DIFFERENT AREAS, BUT JUST TO GIVE YOU A TASTE.
12 WE'RE LOOKING AT A VERY SIGNIFICANT PROBLEM WITH
13 CARTILAGE DISORDERS. WHEN I FIRST CAME TO CIRM, I
14 THINK ONE OF THE BIGGEST AREAS PEOPLE WANTED TO
15 THINK ABOUT WERE ALL THE KNEE DISORDERS AND THE
16 QUALITY OF LIFE ISSUES THAT COME FROM HAVING
17 DEGENERATIVE CARTILAGE AND THE IMPACT THAT HAS ON
18 FUNCTION. SO WE'RE WORKING IN THIS AREA.

19 ALSO WE'RE AT WORKING IN BLOOD AND GENETIC
20 DISORDERS. WE'RE WORKING IN SICKLE CELL ANEMIA, AND
21 WE'RE WORKING IN A VERY RARE TYPE OF CONGENITAL
22 DISORDER USING AUTOLOGOUS CELLS AND GENETICALLY
23 CORRECTING THEM AND GIVING THEM BACK TO THE PATIENT.

24 DIABETES AS WELL. WE'RE WORKING ON
25 DEVELOPMENT CANDIDATES AS WELL AS IND-ENABLING

BARRISTERS' REPORTING SERVICE

1 STUDIES FOR THE DISEASE ITSELF AS WELL AS FOR THE
2 MAJOR COMPLICATION OF THAT DISEASE, CHRONIC DIABETIC
3 FOOT ULCERS. DIABETES, AS YOU KNOW, CAN CAUSE
4 AMPUTATIONS BECAUSE OF THE VASCULAR PROBLEMS, CAN
5 CAUSE STROKE, HEART DISEASE. SO WE'RE WORKING ON
6 WAYS TO TREAT THE PRIMARY DISEASE AS WELL AS THE
7 SIGNIFICANT COMPLICATIONS FROM THE DISEASE.

8 AND THIS IS JUST A LISTING OF THE VARIETY
9 OF OTHER APPROACHES THAT WE'RE USING TO LOOK AT
10 OTHER TYPES OF MAJOR DISEASES OR INJURIES, INCLUDING
11 DUCHENNE MUSCULAR DYSTROPHY WHERE WE'RE WORKING ON A
12 PROOF OF CONCEPT STUDY NOW.

13 THE TAKE-HOME POINTS IS NOT FOR YOU TO GO
14 THROUGH A TELEPHONE BOOK REALLY OF ALL THE DIFFERENT
15 TYPES OF THINGS THAT WE'RE DOING, BUT WHAT WE WANTED
16 TO GET ACROSS IS -- I THINK WHAT YOU WILL SEE IS
17 THIS HAS BEEN AN EXPLORATION PHASE FOR CIRM. WE'VE
18 MOVED FROM BASIC AND THE FACILITY BUILDING AND
19 BRINGING IN RESEARCHERS TO TRYING TO MOVE US TOWARDS
20 TRANSLATIONAL SCIENCE TOWARDS AND INTO THE CLINIC.

21 I THINK YOU CAN SEE FROM THE VARIETY OF
22 THERAPEUTIC AREAS AND FROM THE VARIETY OF PLATFORMS
23 THAT YOU SEE BEING APPROACHED THAT THIS HAS STILL
24 BEEN THOUGHT OF AS AN EXPLORATION PHASE. AND SOME
25 OF THE THOUGHTS AS WE GO FORWARD AS YOU THINK

BARRISTERS' REPORTING SERVICE

1 THROUGH IT IS ARE WE AT A POINT IN TIME TO THINK
2 ABOUT SOME OF THE PRIORITIZATION AND FOCUS ISSUES IN
3 TERMS OF MAKING SURE WE GET TO OUR MISSION IN
4 MEETING OUR DELIVERABLES OF PROVIDING THOSE PRODUCTS
5 THAT SHOW SOME PRELIMINARY EVIDENCE OF EFFICACY.

6 WE HAVE MADE SUBSTANTIAL PROGRESS IN
7 STRENGTHENING AND EXPANDING THE PORTFOLIO, THE
8 TRANSLATIONAL PORTFOLIO, OVER THE PAST 18 TO 24
9 MONTHS. AND THIS IS REALLY IN VERY LARGE PART, I'D
10 LIKE TO ACKNOWLEDGE OUR PRESIDENT, ALAN TROUNSON,
11 WHO REALLY GOT THE AGENCY TO START FOCUSING ALONG
12 WITH OBVIOUSLY THE RECOMMENDATIONS AND THE OVERSIGHT
13 FROM THE BOARD INTO MOVING INTO THIS DIRECTION, THAT
14 WE'VE MADE INVESTMENTS IN THE NUMBERS, IN THE
15 DOLLARS OF THE PROGRAMS MOVING TOWARDS AND INTO
16 CLINICAL TRIALS, AND THAT WE'RE WORKING
17 COLLABORATIVELY, AS WAS MENTIONED EARLY, WITH NINE
18 DIFFERENT COUNTRIES, WITH TWO DIFFERENT
19 INTERNATIONAL STATES, WITH OTHER STATES ACROSS THE
20 U.S., AND WITH PATIENT FOUNDATIONS TO LEVERAGE OUR
21 EXPERTISE AND RESOURCES.

22 WE KNOW WE'RE NOT GOING TO DO IT ALONE,
23 BUT WE'LL BE ABLE TO LEVERAGE IN A MORE EFFECTIVE
24 WAY IF WE WORK COLLABORATIVELY WITH THESE OTHER
25 FUNDING PARTNERS. WE'RE FORGING INTERACTIONS WITH

BARRISTERS' REPORTING SERVICE

1 THE AGENCIES THAT ARE SO CRITICAL FOR DECIDING
2 WHETHER TO APPROVE THESE THERAPIES GOING FORWARD AND
3 WAYS TO MAKE THE REGULATORY PATHWAY MORE PREDICTABLE
4 BECAUSE PREDICTABILITY IS GOING TO BE VERY IMPORTANT
5 AS WE WORK WITH COMPANIES AND INVESTORS. IT'S NOT
6 JUST GREAT SCIENCE. THERE HAS TO BE A PATHWAY
7 FORWARD. AND WE'RE RECOGNIZING THAT EARLY AND WE'RE
8 WORKING WITH IT.

9 AND ALSO ACTIVE MANAGEMENT OF THE RESEARCH
10 PROGRAMS, PARTICULARLY IN THE TRANSLATIONAL
11 PORTFOLIO, IS GOING TO BE, I THINK, A VERY
12 IMPORTANT, CRITICAL ELEMENT AS OPPOSED TO PERHAPS
13 EARLIER IN RESEARCH AND BASIC BIOLOGY WHEN WE MAY
14 WANT TO HAVE A THOUSAND FLOWERS BLOOM. AS WE'RE
15 MOVING TOWARDS THE CLINIC, IT'S THE GREAT IDEA, IT'S
16 THE EXPERIENCED TEAM, AND IT'S A PATHWAY FORWARD
17 THAT'S GOING TO ENABLE US TO EXECUTE ON OUR MISSION.

18 SO WITH THAT, I'D LIKE TO END AND HOPE
19 THAT WE'VE GIVEN YOU, BOTH PAT AND I, AND I'D LIKE
20 TO ACKNOWLEDGE IN ADDITION TO RAHAL, WE'VE WORKED
21 EXTENSIVELY WITH THE WHOLE SCIENCE TEAM, WITH
22 MICHAEL YAFFE, WITH BETTINA STEFFAN, WITH ALL THE
23 SCIENCE OFFICERS IN TERMS OF TRYING PROVIDE YOU AN
24 INFORMED SET OF SLIDES THAT WE HOPE WILL BE USEFUL
25 TO YOU. SO THANK YOU, AND PERHAPS WE CAN OPEN THIS

BARRISTERS' REPORTING SERVICE

1 UP TO QUESTIONS IF YOU ARE INTERESTED.

2 DR. PIZZO: THREE COMMENTS. FIRST, THANKS
3 TO PAT, ELLEN, AND ALAN FOR THE PRESENTATION. I
4 THOUGHT THIS WAS REALLY VERY HELPFUL AND VERY
5 IMPORTANT.

6 I THINK THE SECOND, WHICH IS REALLY A
7 FOLLOW-UP TO THE FIRST, IS AS THIS MATURES, IT WOULD
8 BE HELPFUL TO COME BACK AND ACTUALLY IN SOME WAY
9 HAVE GREEN, RED, AND YELLOW SIGNALS ABOUT WHERE
10 THESE VARIOUS PROJECTS ARE SO YOU CAN SEE WHERE
11 WE'RE HEADING IN TERMS OF YOUR COMMENTS TOWARDS
12 SUCCESS.

13 THE THIRD, AND I THINK, ELLEN, YOU TOUCHED
14 ON THIS, BUT I WANT TO UNDERSCORE AT LEAST MY VIEW
15 ABOUT THIS, WHICH IS THERE IS A SORT OF TENSION THAT
16 WILL LIKELY ARISE AS YOU LOOK IT A PORTFOLIO BETWEEN
17 ARE WE COVERING EVERYTHING OR FOCUSING ON THE THINGS
18 THAT ARE LIKELY TO LEAD TO PAYOFF. MY OWN SORT OF
19 PERSONAL PLEA IS THAT WE AVOID THE FORMER IN FAVOR
20 OF THE LATTER. BY THAT I MEAN I THINK ALL THE
21 ATTENTION SHOULD BE ON WHAT AREA IS LIKELY TO LEAD
22 TO A PROOF OF PRINCIPLE RATHER THAN SAYING DO WE
23 HAVE SOMETHING IN THIS AREA OR NOT.

24 I WELL APPRECIATE THE SENSE OF NEED THAT
25 ANY PATIENT OR PATIENT GROUP MAY FEEL ABOUT THEIR

BARRISTERS' REPORTING SERVICE

1 AREA BEING COVERED, BUT THE SELECTION SHOULD REALLY
2 AT THIS CRITICAL JUNCTURE IN TIME BE ON WHAT'S GOING
3 TO GIVE US THE LEAD TO REALLY CARRY THIS WORK
4 FORWARD SO ALL OF IT DOESN'T GET TRUNCATED AS THE
5 FUNDING CYCLE GETS COMPLICATED.

6 DR. FEIGAL: ONE THING I JUST WOULD LIKE
7 TO SAY IS WE INTEND TO PUT THIS UP ON OUR PUBLIC
8 WEBSITE. WE WANT THE PUBLIC TO KNOW WHAT WE'RE
9 FUNDING AND WHERE WE ARE FUNDING. WE WANT OUR
10 INVESTIGATORS TO KNOW WHAT WE'RE FUNDING AND WHERE
11 WE'RE FUNDING. AND NOW WITH OUR INITIATIVES, AND IT
12 STARTED WITH EARLY TRANSLATION III AND IS GOING TO
13 CARRY FORWARD INTO DISEASE TEAM II RESEARCH AWARD,
14 WE'RE GOING TO PUT OUR PORTFOLIO UP THERE. AND IN
15 THE RFA WE'RE ASKING IF THEY ARE LOOKING AT AN AREA
16 WE'RE ALREADY FUNDING, PLEASE PROVIDE IN YOUR
17 APPLICATION THE COMPELLING EVIDENCE FOR YOUR
18 APPROACH. SO AT LEAST -- WE'RE NOT RESTRICTING IT.
19 WE'RE JUST DRAWING PEOPLE'S ATTENTION TO IT RIGHT
20 NOW.

21 CHAIRMAN THOMAS: MICHAEL, YOU HAD A
22 COMMENT?

23 MR. GOLDBERG: YEAH. I JUST WANT TO ECHO
24 PHIL'S COMMENT. I THOUGHT IT WAS AN EXCELLENT
25 PRESENTATION AND VERY HELPFUL. AS SOMEBODY WHO'S

BARRISTERS' REPORTING SERVICE

1 WATCHED THIS EVOLVE OVER THE PAST SEVERAL YEARS,
2 IT'S VERY HEARTENING TO SEE THE PROGRESS.

3 WITH RESPECT TO PHIL'S OTHER POINT ABOUT
4 FOCUS ON PROOF OF PRINCIPLE VERSUS BEING RESPONSIVE
5 TO DISEASE-DRIVEN NEEDS, I THINK I AGREE WITH HIM.
6 AT THIS STAGE OF OUR EVOLUTION, I THINK THAT'S
7 CRITICAL, AND I KNOW YOU'RE MINDFUL OF THAT. THE
8 CLINIC WILL TAKE CARE OF ITSELF IF THE SCIENCE FIRST
9 DEMONSTRATES VIABILITY.

10 AND I LOOK FORWARD TO YOUR UPDATED
11 SCIENTIFIC STRATEGIC PLAN AND THE FIT BETWEEN HOW
12 YOU BALANCE ALL THESE DIFFICULT AND COMPELLING
13 INITIATIVES WITH, ALTHOUGH SEEMINGLY LARGE AMOUNT OF
14 CAPITAL, MUCH LESS CAPITAL THAN, IN FACT, THE
15 OPPORTUNITIES SUGGEST FUNDING FOR. SO THANK YOU ALL
16 VERY MUCH FOR THAT. AND THANK YOU TO THE WHOLE
17 SCIENCE STAFF AND TO THE SCIENTIFIC LEADERSHIP TEAM
18 FOR BRINGING US THIS UPDATE TODAY.

19 CHAIRMAN THOMAS: SENATOR TORRES.

20 MR. TORRES: AS A FORMER POLICYMAKER, THIS
21 IS AN EXTRAORDINARY DOCUMENT. EVERY VOTER IN
22 CALIFORNIA SHOULD GET A COPY OF THIS DOCUMENT IF WE
23 COULD AFFORD IT BECAUSE IT GIVES THEM A SENSE THAT
24 WE ARE MOVING TOWARD ACHIEVING THEIR DREAMS AND HOW
25 THEY VOTED IN 2004. AND I THINK THAT THE LEADERSHIP

BARRISTERS' REPORTING SERVICE

1 OF OUR CHAIRMAN EMERITUS, WHO'S HERE, PROVIDED THAT
2 INITIAL SHOCK TO GET THIS THING DONE, WITH ALAN
3 WORKING ON IT, WITH YOU, ELLEN, JOINING US, AND, OF
4 COURSE, PAT AND THE SCIENTIFIC STAFF. I JUST WANT
5 TO SAY THANK YOU BECAUSE I KNOW PAT'S E-MAILING IT
6 TO ME RIGHT NOW, AND I'M GOING TO E-MAIL IT TO THE
7 GOVERNOR'S OFFICE AS SOON AS SHE E-MAILS IT TO ME SO
8 THAT THEY KNOW EXACTLY WHAT WE'RE DOING AND HOW
9 WE'RE GOING TO KEEP THE UPDATES.

10 AGAIN, I WANT TO ASSOCIATE MYSELF WITH
11 PHIL AND MICHAEL'S COMMENTS IN TERMS OF HOW WE MOVE
12 FORWARD, PATIENTLY OBVIOUSLY, BUT ALSO IT IS A
13 TREMENDOUS DOCUMENT TO TAKE TO PEOPLE TO LET THEM
14 KNOW WE HAVEN'T FORGOTTEN THE MANDATE THAT THE
15 VOTERS PROVIDED IN 2004. THIS IS A WONDERFUL
16 REMINDER OF THAT. THANK YOU.

17 DR. BRYANT: I'D JUST LIKE TO ECHO
18 EVERYTHING THAT'S BEEN SAID. THIS IS THE MOST
19 EXCITING PRESENTATION I'VE SEEN IN A VERY LONG TIME.
20 AND MANY OF US, I'M SURE, ON THIS BOARD ARE ASKED TO
21 TALK ABOUT STEM CELLS. I AM ANYWAY. I'VE GOT THREE
22 TALKS COMING UP. THIS IS JUST -- IF I COULD GET
23 THAT PRESENTATION, THAT WILL BE JUST PERFECT FOR ME.

24 DR. FEIGAL: WE'D BE HAPPY TO SHARE THAT
25 WITH YOU.

BARRISTERS' REPORTING SERVICE

1 DR. BRYANT: THAT'S INCREDIBLE. THANK
2 YOU.

3 DR. PIZZO: WHY DON'T YOU GIVE IT TO ALL
4 OF US?

5 DR. FEIGAL: WE'D BE HAPPY TO SHARE IT
6 WITH YOU.

7 DR. PIZZO: THAT WAY WE CAN CIRCULATE IT
8 AS WELL TO EVERY PERSON IN CALIFORNIA.

9 MS. FEIT: OBVIOUSLY THE PEOPLE OF
10 CALIFORNIA ARE THE MOST IMPORTANT AUDIENCE HERE FOR
11 THIS DOCUMENT. BUT IF THERE IS A WAY TO PUT SORT OF
12 A LAYMAN'S SENTENCE BESIDE SOME OF THE PROGRAMS SO
13 THAT IT'S EASILY -- IF WE DO DISTRIBUTE IT -- MOST
14 PEOPLE IN THIS ROOM UNDERSTAND WHAT WE'VE BEEN
15 TALKING ABOUT; BUT IF WE GET IT OUT TO THE PUBLIC,
16 IF WE COULD CREATE SOME LAYMAN TERM SENTENCES BESIDE
17 SOME OF THE GRANTS AND SOME OF THE TARGETS, I THINK
18 THAT WOULD BE REALLY HELPFUL.

19 DR. FEIGAL: WE'D BE VERY HAPPY TO WORK
20 WITH PEOPLE WHO MIGHT BE BETTER AT SPEAKING ENGLISH
21 THAN JARGON, AND WE'D BE VERY HAPPY TO WORK WITH
22 THEM TO DEVELOP THAT.

23 MR. ROTH: SO JUST ONE SUGGESTION. IN
24 ADDITION TO TRACKING ALL OF THE DATA THAT YOU
25 PRESENTED, MAYBE IT WOULD BE GOOD TO ADD IF THERE'S

BARRISTERS' REPORTING SERVICE

1 INTELLECTUAL PROPERTY INVOLVED, EITHER EXISTING IP
2 OR IP THAT'S BEING PROSECUTED OR PROCESSED BECAUSE
3 THAT'S GOING TO BE VERY IMPORTANT. WHEN I LOOK AT
4 THIS PORTFOLIO, I KNOW THERE'S A LOT OF IP IN HERE.

5 AND THE SAME, ALAN, ON YOUR PRESENTATION
6 TODAY. YOU GIVE US THESE REALLY BREAKTHROUGH
7 PAPERS, AND IT WOULD BE NICE TO KNOW IF THE
8 INVESTIGATOR OR THE INSTITUTION IS, IN FACT, FILING
9 IP.

10 CHAIRMAN THOMAS: ADDITIONAL COMMENTS FROM
11 THE BOARD.

12 MS. LANSING: I THINK THIS GOES WITHOUT
13 ASSUMPTION. I WAS OUT FOR PART OF THE PRESENTATION,
14 SO I DON'T KNOW IF YOU SAID THIS. BUT BECAUSE THIS
15 IS SO GOOD AND BECAUSE WE WANT TO GET IT OUT AND
16 BECAUSE ALL OF THE BOARD MEMBERS WILL DO OUR BEST TO
17 DO SO AND WE WANT TO GET IT TO MEMBERS OF THE
18 LEGISLATURE AS WELL AS THE PUBLIC, I ASSUME WE'RE
19 DOING SOMETHING WITH THE PRESS AS WELL BECAUSE I
20 THINK THIS IS EXACTLY WHAT THEY HAVE BEEN WAITING TO
21 HEAR. IF YOU SAID THAT WHILE I WAS OUT, I
22 APOLOGIZE.

23 DR. FEIGAL: I DIDN'T MENTION ANYTHING
24 WITH THE PRESS RIGHT NOW, BUT WE CAN WORK ON IT. WE
25 DO INTEND TO MAKE IT PUBLIC.

BARRISTERS' REPORTING SERVICE

1 MS. LANSING: I THINK MAKING -- JUST AS A
2 HELPFUL ASIDE, BECAUSE THE WORK SO EXTRAORDINARY AND
3 EVERYONE IS SO PLEASED AND THIS IS WHAT THE
4 TAXPAYERS ARE WAITING TO SEE WHAT THEIR DOLLARS WENT
5 THROUGH, THIS IS WHAT THE LEGISLATURE IS WAITING FOR
6 TO, AND THIS IS WHAT THE PRESS HAS PERHAPS NOT BEEN
7 AS INFORMED OF. YOU KEEP READING THESE ARTICLES
8 WHERE IS THE RESULTS? WHERE IS THE BEEF? NOW I
9 THINK WE CAN REALLY ANSWER THAT. SO I THINK A FULL
10 COURT PRESS WITH VARIOUS SELECT MEMBERS OF
11 NEWSPAPERS AS WELL AS TELEVISION OUTLETS AND REALLY
12 GOING ON AND SAYING THIS IS OUR UPDATE WOULD BE VERY
13 HELPFUL. I THINK WE SHOULD REALLY COORDINATE THAT.

14 DR. PIZZO: SHERRY, WOULD YOU MIND JUST A
15 FRIENDLY MODIFIER TO YOUR VERY HELPFUL COMMENT? I
16 AGREE WITH WHAT YOU ARE SAYING. I ALSO THINK WE
17 HAVE TO BE VERY CAREFUL NOT TO OVERSTATE WHERE WE
18 ARE.

19 MS. LANSING: I AGREE.

20 DR. PIZZO: WHAT WE'RE REALLY SAYING IS
21 THAT THESE ARE THINGS THAT HOLD PROMISE, WE HOPE.
22 BUT IF WE RAISE EXPECTATIONS TOO FAR, I KNOW YOU
23 UNDERSTAND THIS, SHERRY, BUT I JUST WANT TO BE SURE
24 THAT WE ARE CLEAR ABOUT THAT. I THINK FINDING THAT
25 RIGHT BALANCE OF TELLING THE STORY AS A WORK IN

BARRISTERS' REPORTING SERVICE

1 PROGRESS IS REALLY THE GOAL.

2 MS. LANSING: THAT IS EXACTLY, PHIL, THE
3 WAY I MEANT IT, AS A WORK IN PROGRESS BECAUSE WHAT I
4 ALWAYS HEAR IS NOTHING IS HAPPENING. THAT'S WHAT
5 THE -- AGAIN, THIS IS NOBODY'S FAULT, BUT CONSTANTLY
6 I HEAR FROM PEOPLE WHO REALLY CARE. NOTHING IS
7 HAPPENING. YOU KNOW, AND THE ANSWER IS, NO, THAT'S
8 NOT TRUE. THERE'S A LOT HAPPENING. SO I DON'T WANT
9 TO OFFER FALSE HOPES. I JUST WANT TO BE VERY
10 FACTUAL AND NOT NEGATIVE, BUT JUST FACTUAL.

11 CHAIRMAN THOMAS: SHERRY AND DR. PIZZO,
12 THOSE ARE EXCELLENT SUGGESTIONS. I HAVE BEEN
13 LISTENING QUITE ENTHRALLED TO THIS PRESENTATION. I
14 THINK THIS IS DYNAMITE STUFF. WANT TO CONGRATULATE
15 THE STAFF ON JUST CONTINUED SUPERIOR WORK IN PURSUIT
16 OF OUR MISSION. AND I ASSURE YOU, AS ONE WHO'S
17 PRESSING THE COMMUNICATION EFFORT HERE, SHERRY AND
18 DR. PIZZO, THAT THIS WILL BE THE CENTRAL FOCUS OF A
19 MAJOR CAMPAIGN.

20 I WANT TO SAY SHERRY SAYS TOO OFTEN THE
21 PUBLIC THINKS THAT SINCE WE DON'T HAVE IMMEDIATE
22 CURES IN HAND, THAT THERE IS NO PROGRESS HERE.
23 PROGRESS IN THE MEDICAL FIELD IS A VERY NUANCED
24 TERM. AND THERE IS TREMENDOUS PROGRESS HERE ON ALL
25 SORTS OF FRONTS. AND I DO THINK THE PUBLIC WOULD BE

BARRISTERS' REPORTING SERVICE

1 VERY INTERESTED AND DESERVES TO HEAR WHERE THEIR TAX
2 DOLLARS ARE GOING.

3 SO TO MR. JENSEN AND TO YOUR COLLEAGUES IN
4 THE PRESS, I WOULD WELCOME COVERAGE ABOUT THE
5 TREMENDOUS THINGS THAT WE ARE DOING IN THIS REGARD
6 AND AVIDLY LOOK FORWARD TO YOUR ENTHUSIASTIC
7 REPORTING ON THE SUBJECT MATTER.

8 I WOULD LIKE TO -- JUST ONE OTHER COMMENT
9 WHICH I THINK WAS VERY INTERESTING, WHICH I THINK
10 WAS MENTIONED AT A BOARD MEETING THAT PRECEDED ME.
11 BUT WE GET ASKED ON OCCASION WHY WE'RE FUNDING
12 MULTIPLE PROJECTS TARGETED AT THE SAME CONDITION.
13 I'M REMINDED OF A COMMENT SOMEBODY MADE ABOUT THE 33
14 CHILEAN MINERS WHO WERE TRAPPED LAST YEAR, AND THE
15 THREE DIFFERENT TUNNELS THAT WERE BEING DUG IN THE
16 HOPES OF AT LEAST ONE REACHING THEM TO SAVE THEM AS
17 THE WORLD WAS WATCHING. AND OBVIOUSLY ONE DID
18 SUCCEED TREMENDOUSLY AND WAS A TOTAL SUCCESS. AND
19 THAT'S BASICALLY WHAT WE'RE DOING HERE. WE'RE
20 TRYING TO FIND AVENUES TO CURE THIS HOST OF TERRIBLE
21 DISEASES, AND THERE ARE TERRIFIC PROJECTS THAT
22 APPROACH THESE ATTEMPTED CURES FROM VARIOUS
23 DIRECTIONS.

24 AND ONE OF THE GOALS OF CIRM IS TO HELP
25 FUND THOSE IN THE HOPES THAT AT LEAST ONE OF THOSE

BARRISTERS' REPORTING SERVICE

1 PER DISEASE HITS THE 33 TRAPPED MINERS UNDERGROUND.
2 SO I JUST WANT TO SAY THAT I THINK THIS IS
3 FANTASTIC. THIS IS WHAT WE'RE ALL ABOUT. AND
4 CONGRATULATIONS COLLECTIVELY TO EVERYBODY INVOLVED.

5 DO WE HAVE ANY PUBLIC COMMENT ON THIS
6 PRESENTATION? MR. REED.

7 MR. REED: YES. THIS IS EXACTLY WHAT
8 CALIFORNIA WANTED. I WOULD MAKE A POINT ON
9 OVERSTATING THE PROMISE. EVERYONE KNOWS THAT GROWTH
10 IS SLOW, BUT THE INTENSITY OF THE STRUGGLE CANNOT BE
11 OVERSTATED. THAT'S WHAT PEOPLE WANT TO KNOW. EVERY
12 ONE OF THESE DISEASES HAS BEEN CALLED INCURABLE.
13 BEEN TOLD NO HOPE. TO SEE THAT THERE IS SOME HOPE
14 IS TREMENDOUS. IT'S A CANDLE IN A DARKENED CAVE.
15 SO FIGHT FOR THAT STRUGGLE, MAKE IT DRAMATIC BECAUSE
16 THIS IS LIFE AND DEATH FOR US. THANK YOU.

17 CHAIRMAN THOMAS: THANK YOU. DO WE HAVE
18 ANY OTHER COMMENTS FROM THE PUBLIC ON THIS
19 PRESENTATION? HEARING NONE, WE HAVE TWO OTHER
20 PATIENT ADVOCATES THAT WOULD LIKE TO MAKE BRIEF
21 STATEMENTS TO US. FIRST, WE HAVE WITH US THOMAS
22 FOLLETT, WHO'S CHAIRMAN OF THE PARKINSON'S INSTITUTE
23 AND CLINICAL CENTER.

24 MR. FOLLETT: GOOD MORNING. IT'S AN HONOR
25 AND A PRIVILEGE FOR ME TO BE HERE THIS MORNING. AND

BARRISTERS' REPORTING SERVICE

1 I CAN RELATE TO THE PORTFOLIO IN DIFFERENT WAYS. MY
2 WIFE PASSED AWAY FROM LEU GEHRIG'S DISEASE. I HAVE
3 EARLY FORMS OF MACULAR DEGENERATION AND I HAVE
4 PARKINSON'S. SO IT'S HEARTENING TO SEE ALL THE WORK
5 THAT'S BEING DONE. AND I CONGRATULATE CIRM FOR ALL
6 THE FUNDING THAT THEY HAVE BEEN ABLE TO PROVIDE FOR
7 THESE DISEASES.

8 I'VE HAD PD FOR TEN YEARS, BUT I CONSIDER
9 MYSELF ONE OF THE LUCKY ONES. MY PROGRESSION HAS
10 BEEN SLOW, THE MEDS WORK, AND I ENJOY ONE OF MY
11 PRIMARY MEDICATIONS, PLAY AS MUCH GOLF AS I CAN AS
12 PRESCRIBED BY DR. AMINOFF AT UCSF.

13 I'M NOT HERE TODAY FOR MYSELF EVEN THOUGH
14 I CAN LOOK FORWARD TO THE DEGENERATIVE NATURE OF THE
15 DISEASE WHICH WILL RESULT IN INCREASED SYMPTOMS,
16 SUCH AS STIFFNESS IN MY WALKING, IN MY POSTURE, AS
17 WELL AS TREMOR, AND, OF COURSE, NEW SURPRISES THAT
18 WILL COME UP. I'M REALLY HERE FOR THE HUNDREDS OF
19 THOUSANDS OF PEOPLE IN OUR COUNTRY AND AROUND THE
20 WORLD WHO SUFFER FROM SEVERE PHYSICAL AND MENTAL
21 ISSUES LIKE DEMENTIA, SPEECH PROBLEMS, INABILITY TO
22 SWALLOW, AND CONSTIPATION. FOR PEOPLE LIKE MICHAEL
23 J. FOX, WHO HAD EARLY ONSET IN THE PRIME OF THEIR
24 LIFE, OR FOR THOSE WITH ATYPICAL PD, WHICH IS
25 DIFFICULT TO DIAGNOSE AND HARDER TO TREAT.

BARRISTERS' REPORTING SERVICE

1 I SEE MANY OF THESE PEOPLE EVERY WEEK WHEN
2 I'M AT THE PARKINSON'S INSTITUTE IN SUNNYVALE WHERE
3 I SERVE AS CHAIRMAN OF THE BOARD. I SEE YOUNG AND
4 OLD MEN AND WOMEN SHUFFLE INTO THE CLINIC FOR THEIR
5 TREATMENT. IT'S A GOOD REMINDER FOR ME AND FOR THE
6 DOCTORS AND FOR THE RESEARCHERS AT THE INSTITUTE TO
7 SEE WHAT THE DISEASE BECOMES. IT IS A STRONG
8 MOTIVATOR TO WORK TOWARDS A CURE. AND UNTIL A CURE
9 IS FOUND, TO PROVIDE THE BEST CARE AND TREATMENT
10 POSSIBLE TODAY.

11 IT IS AN HONOR AND A PRIVILEGE TO WORK
12 WITH DR. LANGSTON, THE FOUNDER AND CEO OF THE
13 PARKINSON'S INSTITUTE, AND RESEARCH SCIENTISTS LIKE
14 BIRGITT SCHULE, WHO HAS BEEN FUNDED THROUGH CIRM ON
15 MANY GRANTS.

16 WE TREAT OVER 4,000 PATIENTS ANNUALLY, WE
17 CURRENTLY RUN 25 CLINICAL TRIALS, AND WE'RE MAKING
18 GREAT STRIDES IN FINDING EARLY DETECTION OF PD.

19 ADDITIONALLY, AS I HOPE YOU ARE AWARE,
20 WE'RE MAKING GREAT STRIDES WITH STEM CELL RESEARCH
21 WHICH HAS BEEN GENEROUSLY FUNDED THROUGH MULTIPLE
22 CIRM GRANTS TOTALING YEAR TO DATE \$7 MILLION.

23 WHILE THERE ARE MULTIPLE THREADS OF
24 RESEARCH UNDER WAY, PERSONALLY I FEEL STEM CELLS
25 PROVIDE THE BEST OPPORTUNITY FOR SUCCESS. FIRST WE

BARRISTERS' REPORTING SERVICE

1 NEED TO UNDERSTAND THE MECHANISM, AND THEN WE NEED
2 TO FIND MEDICATIONS AND TREATMENTS TO CORRECT THE
3 CAUSES OF BRAIN CELL DEGENERATION AND ULTIMATE CELL
4 DEATH.

5 THE SECOND OBJECTIVE FOR PEOPLE LIKE
6 MYSELF IS IF THE DISEASE PROGRESSION IS STOPPED, HOW
7 DO WE REPAIR THE DAMAGE ALREADY DONE? STEM CELLS
8 HAVE THE POTENTIAL TO PROVIDE SOLUTIONS FOR BOTH
9 CHALLENGES. CURRENTLY OUR LAB UNDER THE DIRECTION
10 OF DR. BIRGITT SCHULE, WE HAVE DEVELOPED PARKINSON'S
11 IN PETRI DISH. BECAUSE THE PARKINSON'S INSTITUTE
12 HAS AN EXPANSIVE CROSS SECTION OF PATIENTS, WE'VE
13 OBTAINED SKIN IN THE GAME, SO TO SPEAK, FROM OVER 50
14 PATIENTS, INCLUDING MYSELF, WITH VARYING FORMS OF
15 HEREDITARY AND GENETIC FORMS OF PD. AFTER CULTURING
16 THESE SKIN CELLS, THEY MIRACULOUSLY TURN INTO
17 PLURIPOTENT STEM CELLS. AND I USE THE WORD
18 "MIRACULOUSLY" BECAUSE I DON'T REALLY UNDERSTAND THE
19 PROCESS, ONLY THE RESULT.

20 FROM THESE STEM CELLS WHICH CARRY A
21 PARKINSON AS THE DISPOSITION OF THE DONOR,
22 SUBSTANTIA NIGRA BRAIN CELLS ARE GENERATED, AGAIN
23 MIRACULOUSLY, WHICH ARE ALIVE AND FUNCTIONING IN A
24 PETRI DISH. ULTIMATELY OVER TIME THESE CELLS
25 DEVELOP THE LEWY BODIES ASSOCIATED WITH PARKINSON'S

BARRISTERS' REPORTING SERVICE

1 DISEASE.

2 FOR THE FIRST TIME EVER WE HAVE A REAL
3 HUMAN-BASED LAB MODEL OF PD. IN THE PAST ANIMAL
4 MODELS HAVE BEEN USED TO SIMULATE THE DISEASE. I'M
5 ALL TOO FAMILIAR WITH THE SOD1 ALS TRANSGENIC MOUSE
6 MODEL OR THE MTPT MODEL DEVELOPED BY OUR OWN DR.
7 LANGSTON. WHILE THESE MODELS HAVE BEEN VERY USEFUL,
8 THEY ARE NOT AS PRODUCTIVE OR DEPENDABLE AS DEALING
9 DIRECTLY WITH THE HUMAN BRAIN.

10 WITH THIS TECHNOLOGY, WE HAVE THE
11 OPPORTUNITY TO TEST VARIOUS GENETIC FORMS OF THE
12 DISEASE, WHETHER IT IS A MUTATION OF THE P2 GENE OR
13 AN OVEREXPRESSION OF ALPHA-SYNUCLEIN, WE CAN CREATE
14 BRAIN CELLS WITH THE GENETIC FACTORS BASED ON THE
15 INDIVIDUAL DONOR FOR OBSERVATION AND RESEARCH. AND
16 EVEN BETTER, WE CAN STUDY THE FORMATION OF THE CELL
17 FROM THE EARLIEST POINT; I.E., THE STEM CELLS ALL
18 THE WAY TO THE GENETICALLY DOOMED BRAIN CELLS.

19 HOPEFULLY THIS RESEARCH OPPORTUNITY CAN
20 HELP US UNDERSTAND THE DISEASE MECHANISM. AND
21 FINALLY, WE CAN INVESTIGATE SOLUTIONS FOR PD BY
22 TESTING DRUGS AND COMPOUNDS, DEFINE THE
23 POSSIBILITIES TO STOP OR REVERSE THE DISEASE
24 PROGRESSION. I HOPE AND PRAY FOR THE DAY WHEN THE
25 DISEASE IS UNDERSTOOD AND CURED FOR THE SAKE OF MY

BARRISTERS' REPORTING SERVICE

1 CHILDREN AND THE CHILDREN OF ALL PD PATIENTS SO THAT
2 THEY DO NOT HAVE TO SUFFER THE FATE OF THEIR
3 PARENTS.

4 IN ADDITION, FOR PEOPLE LIKE ME WHO HAVE
5 LOST SO MANY BRAIN CELLS TO PD, I BELIEVE IT IS
6 POSSIBLE TO TRANSPLANT HEALTHY BRAIN CELLS TO
7 REPLACE THOSE LOST BY PD. BACK IN THE '90S THERE
8 WERE TRANSPLANT PROCEDURES THAT IN A FEW CASES
9 DEMONSTRATED DRAMATIC IMPROVEMENTS, ALTHOUGH THERE
10 WERE MANY MORE DISASTERS THAN SUCCESSES, AND
11 IMPROVEMENTS IN THE FORTUNATE PATIENTS WERE NOT
12 SUSTAINED. I THINK IT SHOWS, THOUGH, THE POTENTIAL
13 EXISTS TO TRANSPLANT PD-FREE CELLS THAT CAN REPLACE
14 THE FAILED BRAIN CELLS AND REESTABLISH THE NETWORK
15 OF CELLS NECESSARY FOR NORMAL FUNCTION.

16 THE OPPORTUNITY IS OURS TO TAKE. THE
17 PROMISE OF STEM CELL-BASED SOLUTIONS THROUGH
18 CONTINUED RESEARCH AND DEVELOPMENT IS AN INCREDIBLE
19 QUANTUM LEAP FORWARD FROM WHERE WE WERE ONLY A FEW
20 YEARS AGO. AS WITH MOST DISEASES, MONEY FOR
21 RESEARCH IS A GATING FACTOR. COMPETITION FOR FUNDS
22 IS DAUNTING, AS IT SHOULD BE. ARGUMENTS FOR PD
23 PRIORITY ARE THE FOLLOWING. PD IS A DEVASTATING
24 DISEASE WHICH AFFECTS THOUSANDS OF AMERICANS. STEM
25 CELL RESEARCH PUTS US AT THE THRESHOLD OF FINDING A

BARRISTERS' REPORTING SERVICE

1 CURE AND TREATMENT OF THE SYMPTOMS. MONEY FOR
2 WELL-THOUGHT OUT RESEARCH APPROACHES CAN DELIVER
3 RESULTS IN A COST-EFFECTIVE MANNER. AND FINDINGS, I
4 THINK, AND METHODS CAN BE SYNERGISTIC WITH OTHER
5 NEURODEGENERATIVE DISEASE SUCH AS ALS AND
6 ALZHEIMER'S AND HUNTINGTON'S.

7 SO I THANK CIRM FOR ALL THE MONEY THAT
8 YOU'VE PROVIDED, AND I LOOK FORWARD TO CONTINUED
9 SUPPORT FOR ALL THE NEUROLOGICAL DISEASES,
10 ESPECIALLY PARKINSON'S. THANK YOU.

11 (APPLAUSE.)

12 CHAIRMAN THOMAS: THANK YOU, MR. FOLLETT.

13 NEXT WE HAVE CARROLL JENKINS, THE
14 EXECUTIVE DIRECTOR OF THE CYSTIC FIBROSIS RESEARCH
15 INC.

16 MS. JENKINS: THANK YOU VERY MUCH FOR
17 HAVING ME HERE TODAY. CYSTIC FIBROSIS OR CF IS A
18 CHRONIC GENETIC DISEASE THAT AFFECTS THE
19 RESPIRATORY, DIGESTIVE, AND REPRODUCTIVE SYSTEMS.
20 MUTATIONS OF THE SPECIFIC GENE, THE CFTR, AFFECT THE
21 TRANSFER OF SALTS AND CHLORIDES INTO AND OUT OF
22 CELLS THAT LINE THE ORGANS OF THESE THREE SYMPTOMS.
23 THIS DEFECTIVE GENE CAUSES THE PRODUCTION OF AN
24 UNUSUALLY THICK AND STICKY MUCUS.

25 IN THE RESPIRATORY SYSTEM OF A PERSON WITH

BARRISTERS' REPORTING SERVICE

1 CF, MEDICATIONS FOR LUNG INFECTIONS AND TREATMENTS
2 TO DISLODGE THAT MUCUS ARE PART OF THE DAILY REGIMEN
3 FOR PEOPLE WITH CF. UNFORTUNATELY AND ULTIMATELY A
4 DECLINE IN LUNG FUNCTION CAN LEAD TO DEATH UNLESS A
5 SUCCESSFUL LUNG TRANSPLANT CAN OCCUR.

6 I INVITE YOU TO MEET CHRIS. SHE'D LIKE TO
7 BE HERE TODAY. SHE'S AT A DOCTOR'S APPOINTMENT AND
8 WROTE THIS, "A DAY IN THE LIFE WITH CYSTIC
9 FIBROSIS," OF WHICH I'LL READ TO YOU A PART. SHE
10 SAYS, "I WAS DIAGNOSED WITH CF AT ONLY SIX MONTHS OF
11 AGE. IN MY PROFESSIONAL, PERSONAL LIFE, I EARNED A
12 BFA, WORKED A WEB LEAD AT A GRAPHIC DESIGN AGENCY,
13 AND TAUGHT UNTIL FORCED TO RETIRE DUE TO CF
14 COMPLICATIONS IN 2007. I'VE BEEN MARRIED FOR 11
15 YEARS.

16 "NOW AT 34 YEARS OLD CF AFFECTS PART OF MY
17 DAY-TO-DAY LIFE. A DAY IN MY LIFE FOR ME BEGINS
18 WITH SWALLOWING A PILL FOR ACID REFLUX AND WAITING
19 FOR A HALF HOUR TO EAT. THEN I COUNT THE CARBS
20 CONTAINED IN MY MEAL, TAKE MY BLOOD SUGAR WITH A
21 PRICK OF MY FINGER TO DELIVER AN APPROPRIATE AMOUNT
22 OF INSULIN THROUGH MY INSULIN PUMP, A PUMP THAT'S
23 ATTACHED TO MY SKIN PRETTY MUCH ALL THE TIME AND
24 LOOKS LIKE A PAGER. THEN I EAT BREAKFAST AND
25 SWALLOW 12 PILLS THROUGHOUT BREAKFAST AND DO ONE

BARRISTERS' REPORTING SERVICE

1 NOSE SPRAY.

2 "AT THIS POINT I SIT FOR A BIT AND WAIT
3 FOR THE BREAKFAST TO SLOWLY DIGEST. THIS IS WHEN I
4 MIGHT WATCH T.V. AND RETURN E-MAILS. I TEND TO KEEP
5 IN TOUCH WITH FRIENDS THIS WAY BECAUSE I DO NOT
6 OFTEN MEET PEOPLE WITH THIS DISEASE, NOR HAVE THE
7 ENERGY TO COME OUT AND SEE THEM IN PERSON.

8 "TODAY AFTER BREAKFAST, I'M FEELING A
9 LITTLE NAUSEOUS AND NEED TO SIT A BIT LONGER. THIS
10 HAPPENS SOMEWHAT FREQUENTLY. I THINK IT'S ALL THE
11 MEDS THAT I SWALLOW COMBINED WITH THE ACID REFLUX.

12 "NOW ON A RARE, EASY DAY, LIKE TODAY,
13 WHERE I HAVE NO PLACE ELSE TO BE, I START TO FOCUS
14 ON MY LUNG THERAPIES. THIS STARTS FOR ME WITH DOING
15 FOUR INHALERS AND SPACING EACH OUT FIVE MINUTES
16 APART. USUALLY I USE A TIMER AND WATCH T.V. TO DO
17 THIS. NEXT I DO A HYPERTONIC SALINE, AN INHALED NEB
18 DRUG THAT TAKES ABOUT 15 MINUTES. AND THIS IS THE
19 HARDEST PART OF THE PROCESS FOR ME. THE SOLE
20 PURPOSE OF THIS DRUG IS TO MAKE ME COUGH. DURING
21 THE SALINE, THIS IS A BALANCE OF FINDING A
22 PERCENTAGE THAT WILL MAKE ME COUGH, BUT NOT SO MUCH
23 THAT I LOSE THE FOOD THAT I JUST ATE."

24 SHE GOES ON WITH THIS TO SAY, "AT ABOUT
25 THIS TIME I REALIZE I HAVEN'T BEEN DOING ENOUGH NOSE

BARRISTERS' REPORTING SERVICE

1 SPRAYS, SO I DO SEVEN SEPARATE NOSE SPRAYS A DAY.

2 "BACK TO EXERCISE. AT PULMONARY REHAB,
3 THEY TAUGHT US TO MONITOR OUR HEART RATE, BLOOD
4 PRESSURE, AND O2 LEVELS THROUGHOUT OUR ROUTINE, SO I
5 DO THAT.

6 "AND NOW LUNCH. LUNCH IS MUCH LIKE
7 BREAKFAST. COUNT THE CARBS, TAKE BLOOD SUGAR,
8 DELIVER INSULIN, EAT AND SWALLOW SEVEN PILLS, AND
9 THEN RETURN TO LUNG THERAPY."

10 THIS DAY IN THE LIFE OF CHRIS IS JUST HER
11 MORNING. AND THE REST OF THIS DOCUMENT LOOKS A LOT
12 LIKE THE MORNING. AND THIS IS FOR HER AN EASY DAY
13 TO REMAIN HEALTHY WITH CYSTIC FIBROSIS.

14 CHRIS IS 34 YEARS. SHE'S A RELATIVE
15 SUCCESS STORY AS SHE APPROACHES THE MEDIAN AGE OF
16 SURVIVAL FOR CYSTIC FIBROSIS, WHICH IS 37. SADLY
17 HER REPORT IS NOT SINGULAR. SHE SPEAKS FOR MANY
18 WITH CYSTIC FIBROSIS, INCLUDING MY STEPSON ALEX,
19 HOPE TO TURN 37 IN NOVEMBER.

20 IN THE UNITED STATES ONE IN 31 PEOPLE
21 SILENTLY CARRIES THE GENE FOR CYSTIC FIBROSIS. THE
22 MATH HAS IT THAT TWO PEOPLE IN THIS ROOM MAY BE A
23 SILENT CARRIER AT THIS TIME FOR THIS DISEASE. WHEN
24 THESE TWO CARRIERS HAVE A CHILD, THERE'S A
25 ONE-IN-FOUR CHANCE THE CHILD WILL HAVE CYSTIC

BARRISTERS' REPORTING SERVICE

1 FIBROSIS LIKE CHRIS, WHO LOOKS A BIT LIKE MY OWN
2 DAUGHTER.

3 I ENCOURAGE CIRM TO CONTINUE THE STEM CELL
4 RESEARCH FOR THIS LIFE-SHORTENING DISEASE. I HOPE
5 TO SEE ON PAT'S NEXT GRAPH THAT CYSTIC FIBROSIS IS A
6 PART OF THAT. I WANT TO THANK YOU ALL VERY DEEPLY
7 FOR WHAT YOU ARE DOING FOR ALL OF US, ALL OF YOU,
8 ALL OF THOSE WHO FACE CRITICAL HEALTH CHALLENGES.
9 THANK YOU.

10 (APPLAUSE.)

11 CHAIRMAN THOMAS: SENATOR TORRES.

12 MR. TORRES: MS. JENKINS, I JUST WANT YOU
13 TO KNOW THAT DURING MY RECOVERY FROM COLON CANCER IN
14 THE HOSPITAL, MY NEXT DOOR NEIGHBOR WAS A
15 21-YEAR-OLD YOUNG WOMAN WITH CYSTIC FIBROSIS. I HAD
16 NEVER HEARD OF THE DISEASE BEFORE, BUT WHAT SHE HAD
17 TO GO THROUGH EVERY DAY EDUCATED ME PROFOUNDLY. AND
18 I APPRECIATE THAT YOU'RE HERE.

19 CHAIRMAN THOMAS: THANK YOU. AND TO MR.
20 FOLLETT AND MS. JENKINS AND THOSE THAT CAME BEFORE
21 US EARLIER, ALL PATIENT ADVOCATES, WE HEAR YOU. WE
22 CONTINUE TO STRIVE TO DEVELOP THERAPIES AND CURES
23 FOR THOSE YOU REPRESENT. AND VERY MUCH APPRECIATE
24 YOU COME TO SPEAK TO US TO FURTHER EDUCATE US ON
25 THESE ISSUES. SO THANK YOU VERY MUCH.

BARRISTERS' REPORTING SERVICE

1 WE'LL PROCEED NOW TO ITEM NO. 7.

2 WE HAVE A REQUEST FOR -- STRICTLY FIVE.
3 UNDER ORDERS OF MR. HARRISON, YES, THIS IS A LEGAL
4 ORDER, WE HAVE A FIVE-MINUTE BREAK AND WILL RESUME
5 WITH ITEM 7. THANK YOU.

6 (A RECESS WAS TAKEN.)

7 CHAIRMAN THOMAS: OKAY. SCHOOL IS BACK IN
8 SESSION HERE. WE'RE ON TO ITEM 7, WHICH IS
9 CONSIDERATION OF RECOMMENDATIONS FROM THE GRANTS
10 WORKING GROUP REGARDING APPLICATIONS SUBMITTED IN
11 RESPONSE TO RFA 10-05, WHICH IS THE CIRM DISEASE
12 TEAM THERAPY DEVELOPMENT AWARDS PART 1, OR IN
13 ABBREVIATED PARLANCE, THE DISEASE TEAM PLANNING
14 AWARDS.

15 MR. TROUNSON -- KAREN, THERE YOU ARE.
16 YOU'RE ALREADY UP THERE. DR. KAREN BERRY IS GOING
17 TO WALK US THROUGH THIS ITEM.

18 DR. BERRY: THANK YOU, MR. CHAIRMAN, BOARD
19 MEMBERS, MEMBERS OF THE AUDIENCE, AND GUESTS TODAY.
20 I WOULD LIKE TO PRESENT THE RECOMMENDATIONS PUT
21 FORTH BY THE GRANTS WORKING GROUP IN MAY OF 2011 FOR
22 THE DISEASE TEAM THERAPY DEVELOPMENT PLANNING
23 AWARDS. THIS IS AGENDA ITEM NO. 7 IN YOUR BINDER.

24 IN AUGUST OF 2010, THIS BOARD APPROVED THE
25 CONCEPT OF THE DISEASE TEAM THERAPY DEVELOPMENT

BARRISTERS' REPORTING SERVICE

1 AWARD, FORMERLY CALLED DISEASE TEAM II. THE PURPOSE
2 OF THE DTTD IS TO ADVANCE PRECLINICAL AND/OR EARLY
3 CLINICAL DEVELOPMENT OF NOVEL THERAPIES DERIVED FROM
4 OR TARGETING STEM CELLS OR UTILIZING REPROGRAMMING
5 THAT MAY LEAD TO MORE EFFICACIOUS TREATMENTS FOR
6 PATIENTS WITH DEBILITATING DISEASE OR SERIOUS
7 INJURY.

8 THIS AWARD WILL OCCUR IN TWO STAGES: THE
9 PLANNING AWARD, WHICH I WILL SPEAK TO YOU ABOUT
10 TODAY AND PRESENT, AND THE RESEARCH AWARD. AND THE
11 ULTIMATE GOAL OF THIS IS THAT IN FOUR YEARS TO
12 ACHIEVE ONE OR MORE OF THESE: TO SUBMIT AN
13 APPROVABLE IND, TO COMPLETE A PHASE I OR PHASE I/II
14 STUDY, OR TO COMPLETE A PHASE II STUDY.

15 THE REASONS THE PLANNING AWARD CONCEPT
16 CAME ABOUT WAS THIS WAS BASED ON FEEDBACK FROM OUR
17 APPLICANTS AND FUNDING PARTNERS. AND THEY EXPRESSED
18 THAT THEY NEED TIME AND MONEY TO ESTABLISH TEAMS
19 WITH THE RIGHT EXPERTISE AND GATHER COLLABORATORS.
20 SO THIS PLANNING AWARD IS SET UP TO HELP TEAMS
21 ESTABLISH THEIR TEAMS AND GET COLLABORATORS, AND IT
22 ALSO PROVIDES THEM OPPORTUNITY TO GET ACCESS TO
23 REGULATORY EXPERTS, PROJECT MANAGEMENT EXPERTS, AND
24 CLINICAL PERSONNEL SO THAT THEY CAN PUT TOGETHER THE
25 SUPPORTING DOCUMENTS THAT THEY NEED TO CARRY OUT

BARRISTERS' REPORTING SERVICE

1 THESE PARTICULAR THINGS, WHETHER IT BE AN IND OR A
2 CLINICAL TRIAL, FOR INSTANCE, LIKE TO GET THEIR
3 PROJECT TIMELINE READY, GET THEIR ACTIVITIES-BASED
4 BUDGET READY, WRITE THEIR CLINICAL PROTOCOL
5 SYNOPSIS.

6 WE WERE VERY CLEAR THAT WE HAD TO HAVE A
7 SINGLE DEVELOPMENT CANDIDATE. AND THE REASON FOR
8 THIS IS THIS IS MORE OF A READINESS ISSUE. BECAUSE
9 IN THE TIME, THE FOUR-YEAR TIME FRAME, THAT THESE
10 TEAMS WILL HAVE WITH THIS RESEARCH AWARD, THEY WILL
11 HAVE TO PUT TOGETHER ALL OF THESE AND GET TO THE IND
12 OR CLINICAL TRIAL. AND IF THEY'RE STILL TRYING TO
13 DECIDE EARLY IN THEIR PROGRAM ABOUT TRYING TO DO A
14 BAKE-OFF BETWEEN TWO OR THREE CANDIDATES, THEN
15 THEY'RE NOT GOING TO HAVE ENOUGH TIME TO ACHIEVE
16 THEIR GOALS.

17 SO WE WERE ALSO OPEN TO A NUMBER OF ROLES
18 THAT STEM CELLS PLAY AND POTENTIALLY COULD PLAY IN
19 THERAPIES. SO YOU CAN SEE ON THIS SLIDE THIS IS THE
20 NUMBER, NUMEROUS CELL TYPES THAT WE ARE TARGETING IN
21 THIS AWARD. AND CERTAINLY GOING FROM HUMAN
22 EMBRYONIC STEM CELLS IN IPS CELLS, NEURAL STEM
23 CELLS, NEUROPROGENITOR CELLS, FOR REPROGRAMMED OR
24 GENETICALLY MODIFIED STEM CELLS, WE ALSO WILL LOOK
25 AT PARTICULARLY SMALL MOLECULES OR BIOLOGICAL

BARRISTERS' REPORTING SERVICE

1 CANDIDATES THAT WERE GENERATED USING THESE TYPES OF
2 STEM CELLS, AS I JUST MENTIONED. CERTAINLY WE'RE
3 TARGETING CANCER STEM CELLS OR ENDOGENOUS STEM CELLS
4 IN VIVO AND ALSO ENGINEERED FUNCTIONAL TISSUE
5 CANDIDATES FOR TRANSPLANTATION.

6 JUST TO GIVE YOU A LITTLE BRIEF REVIEW
7 ABOUT THE CRITERIA, THE REVIEW CRITERIA IN THE
8 GRANTS WORKING GROUP, WE CONDUCTED A FULL TWO-DAY
9 GRANTS WORKING GROUP REVIEW WITH THE REVIEW PANEL
10 THAT WAS MADE UP OF EXPERTISE IN AREAS OF THE
11 VARIOUS AND SUNDRY DISEASE AREAS THAT WE HAD. WE
12 HAD DRUG AND PRODUCT DEVELOPMENT EXPERTS. WE HAD
13 CLINICAL TRIAL EXPERIENCED REVIEWERS. WE ALSO HAD
14 REVIEWERS WHO HAD SIGNIFICANT EXPERIENCE IN
15 REGULATORY AND FDA EXPERIENCE.

16 SO THE REVIEW CRITERIA CENTERED AROUND
17 THESE THREE AREAS YOU CAN SEE ON THE SLIDE. IN THE
18 SIGNIFICANCE AND IMPACT, WE LOOKED AT A DRAFT OF
19 THEIR TARGET PRODUCT PROFILE, THE TPP. THIS WE
20 LOOKED AT TO SEE IF THE PLAN WAS ACHIEVABLE. COULD
21 THEY REALLY DO THIS IN FOUR YEARS? DOES IT REFLECT
22 AN UNMET MEDICAL NEED? AND DOES IT CLINICALLY OFFER
23 ADVANTAGES OVER THE CURRENT THERAPIES? WAS IT
24 RESPONSIVE? ARE THEY GOING TO DO AN IND ENABLING?
25 ARE THEY GOING TO DO A CLINICAL TRIAL?

BARRISTERS' REPORTING SERVICE

1 THE PROJECT RATIONALE AND FEASIBILITY
2 LOOKED AT, WE WANTED TO HAVE A STRONG SCIENTIFIC
3 RATIONALE. IS THERE PRECLINICAL DATA THAT THEY HAVE
4 THAT BACKS UP THIS? AND THEN FEASIBILITY, DO THEY
5 HAVE ALL THE ACTIVITIES NECESSARY? HAVE THEY LOOKED
6 AT ALL THE ACTIVITIES NECESSARY, THEIR
7 MANUFACTURING, THEIR CLINICAL PROTOCOL SYNOPSIS,
8 THEIR CLINICAL TRIALS PROTOCOLS, DEPENDING ON WHERE
9 THEY ARE IN THEIR PROGRAM.

10 AND THEN, LASTLY, WE LOOKED AT THE
11 QUALIFICATIONS OF THE PRIMARY INVESTIGATOR AND THE
12 PLANNING LEADER. WHAT WE DID REQUIRE WAS THAT THE
13 PRINCIPAL INVESTIGATOR SHOULD HAVE EXPERIENCE IN
14 TRANSLATIONAL RESEARCH AND DEVELOPMENT.

15 THE PLANNING AWARD ALLOCATIONS, THE
16 PLANNING AWARDS WHICH WE'LL DISCUSS TODAY, ARE SIX
17 MONTHS AWARD AND THEY'RE UP TO ALLOCATIONS OF \$3.3
18 MILLION, AND THAT WILL FUND UP TO 30 AWARDS. AND
19 THE RESEARCH AWARDS, WHICH WE WILL HAVE LATER ON
20 NEXT YEAR, ARE FOUR-YEAR AWARDS, AND THEY'RE UP TO
21 \$240 MILLION, AND WE'LL FUND UP TO 12 AWARDS.

22 NOW, THIS PARTICULAR GRAPHIC SHOWS THE
23 DISTRIBUTION OF THE SCORES, AND IT REPRESENTS THE
24 STARTING POINT FOR THE PROGRAMMATIC DISCUSSION THAT
25 WE HELD AT THE GRANTS WORKING GROUP. THE FIRST

BARRISTERS' REPORTING SERVICE

1 ACTION WAS TO DRAW THE GREEN LINE YOU CAN SEE OVER
2 THERE LISTED AROUND 71, IF YOU WILL. AND THE GREEN
3 LINE IS WHERE IT'S JUDGED TO BE -- THESE ARE JUDGED
4 TO BE SCIENTIFICALLY MERITORIOUS AND ARE RECOMMENDED
5 FOR FUNDING.

6 THE RED LINE TO THE MIDDLE OF THE GRAPH,
7 IF YOU WILL, IS DRAWN BELOW WHICH THESE WERE LESS
8 MERITORIOUS, AND THEY ARE NOT RECOMMENDED FOR
9 FUNDING.

10 THE LINES THAT WE CREATED, THE INITIAL
11 POINT FOR DISCUSSION WHERE ALL THE APPLICATIONS
12 BETWEEN THE TWO BOUNDARIES, WERE SET BY THE GRANTS
13 WORKING GROUP. THESE WERE ALL INDIVIDUALLY
14 DISCUSSED VIGOROUSLY, I MIGHT ADD, AND WERE VOTED
15 EITHER INTO THE TIER I, WHICH YOU SEE ON THE RIGHT,
16 OR THE TIER III, NOT RECOMMENDED.

17 SO THE RESULTS OF THE PROGRAMMATIC
18 DISCUSSION ARE SUMMARIZED ON THE FOLLOWING SLIDE.
19 AND SO FOR TIER I, RECOMMENDED FOR FUNDING, WERE 19
20 APPLICATIONS, AND TIER III, NOT RECOMMENDED, WERE 17
21 APPLICATIONS. NOW, YOU WILL NOTICE THERE'S A LITTLE
22 RED ASTERISK, AND THERE WERE FIVE OF THESE
23 RECOMMENDED FOR FUNDING, WHATEVER, GRANTS THAT HAD
24 SPECIFIC CONDITIONS. AND THESE MUST BE MET BY THE
25 TIME OF THE RESEARCH AWARD APPLICATION DEADLINE.

BARRISTERS' REPORTING SERVICE

1 AND SO THAT WAS, I MIGHT ADD, A CREATIVE WAY TO LOOK
2 AT THIS. AND SO WE WILL ADDRESS THAT HERE BRIEFLY
3 IN A MOMENT.

4 JUST TO GIVE YOU A GENERAL OVERALL
5 TIMETABLE, THE RESEARCH AWARDS TIMETABLE, WE'RE
6 PUTTING OUT -- THE APPLICATIONS ARE DUE IN JANUARY
7 2012. THE GRANTS WORKING GROUP WILL BE IN APRIL
8 2012. THIS BOARD WILL CONSIDER THESE IN JUNE. AND
9 THEN THE EARLIEST FUNDING WILL BE THE SECOND HALF OF
10 2012.

11 YOU WANT TO ANSWER QUESTIONS? ANY
12 QUESTIONS ABOUT --

13 DR. FEIGAL: I ACTUALLY JUST WANT TO ADD
14 ONE THING JUST EXPLICITLY. WE HAVE AN EXCEPTIONS
15 PATHWAY FOR FOR-PROFIT COMPANIES WHERE WE'LL CLARIFY
16 THAT IN OUR RFA THAT WE'LL BE POSTING, THE
17 INITIATIVE. THIS IS FOR THE AWARD, NOT THE PLANNING
18 AWARD, THE ACTUAL RESEARCH AWARD. SO I JUST WANTED
19 TO ADD THAT INFORMATION, THAT WE WILL HAVE A PATHWAY
20 FOR EXCEPTIONS FOR FOR-PROFIT COMPANIES. AND ALSO
21 FOR -- SO ANYWAY, THAT WILL BE UP TO PRESIDENTIAL
22 DECISION. IT WILL HAVE CRITERIA LISTED THERE.

23 AND THIS WAS IN RESPONSE TO THE BOARD
24 DISCUSSION WHEN THIS CONCEPT WAS FIRST DISCUSSED TO
25 TELL US NOT JUST TO LIMIT IT TO PEOPLE WHO RECEIVED

BARRISTERS' REPORTING SERVICE

1 A PLANNING AWARD, BUT BECAUSE INDUSTRY MAY HAVE A
2 DIFFERENT TIMETABLE OR DOES NOT NEED A PLANNING
3 AWARD, THAT WE SHOULD HAVE AN EXCEPTIONS PATHWAY
4 OPEN TO THEM.

5 DR. PIZZO: REALLY A FOLLOW-UP OF THAT
6 COMMENT. WHEN WE DID THE DISEASE AWARDS FIRST TIME
7 AROUND, WE DID NOT HAVE AS A PREREQUISITE THAT THE
8 SUBMITTER NEEDED TO BE A PLANNING AWARD WINNER. IS
9 THAT STILL THE CASE THIS TIME? IF SOMEONE DIDN'T
10 HAVE A PLANNING AWARD OR A PLANNING AWARD WASN'T
11 FUNDED AND THE GROUP STILL DECIDED THAT THEY WANTED
12 TO SUBMIT, WE ALLOW THAT TO HAPPEN?

13 DR. FEIGAL: WE ALLOW SOME EXEMPTIONS THIS
14 TIME. SO WE DO THE RFA, DISEASE TEAM II, THE WAY IT
15 WAS STATED, AND, GIL, PLEASE CORRECT ME IF I'M
16 WRONG, WAS THAT IT WAS REQUIRED PLANNING AWARDS, BUT
17 WITH EXCEPTIONS THAT COULD BE GRANTED BY THE
18 PRESIDENT. AND ONE, THERE WAS AN EXCEPTION FOR
19 FOR-PROFIT COMPANIES TO COME IN BECAUSE THEY HAVE A
20 DIFFERENT TIMELINE AND MAY NOT NEED A PLANNING
21 AWARD. AND TWO, THERE MAY BE -- WELL, FOR DISEASE
22 TEAM I, IF THEY HAPPEN TO HAVE REACHED THEIR FINAL
23 MILESTONE. SO IF THEY FILED THEIR IND, THEN THEY'RE
24 ELIGIBLE TO COME IN THIS ROUTE AS WELL.

25 DR. PIZZO: BUT WHAT IF A GROUP WAS NOT

BARRISTERS' REPORTING SERVICE

1 SUPPORTED THROUGH A PLANNING AWARD THIS TIME ROUND,
2 BUT IT WAS STILL VIEWED BY THE TEAM THAT THEY HAD AN
3 IMPORTANT PROPOSAL AND THROUGH ANOTHER FUNDING
4 SOURCE, NOT CIRM, THEY DECIDED THAT THEY WERE GOING
5 TO GO AHEAD AND MAKE A SUBMISSION? WILL THAT BE
6 ENTERTAINED OR NOT?

7 DR. FEIGAL: WE STILL HAVE THAT EXCEPTION
8 PATHWAY. SO ARE YOU TALKING ABOUT THEY WENT THROUGH
9 THE PROCESS AND --

10 DR. PIZZO: MINE IS PARTLY HYPOTHETICAL
11 BECAUSE I DON'T KNOW THAT THERE'S A CASE I HAVE IN
12 MIND YET, BUT I JUST WANTED TO KNOW WHAT THE OPTIONS
13 ARE.

14 DR. FEIGAL: WE HAVE AN EXCEPTIONS
15 PATHWAY.

16 CHAIRMAN THOMAS: I WOULD LIKE TO NOTE
17 THAT THE PROCESS INVOLVES BOTH THE SCIENTIFIC REVIEW
18 OF THE PROPOSAL AS WELL AS A PROGRAMMATIC REVIEW,
19 WHICH I THINK FOR THE BENEFIT OF OUR NEW MEMBERS AND
20 TO REFRESH THE MEMBERS OF THE PUBLIC ON THAT
21 PARTICULAR PART OF THE PROTOCOL, PERHAPS I COULD
22 CALL ON JEFF SHEEHY JUST TO COMMENT ON THE
23 PROGRAMMATIC REVIEW PROCESS.

24 MR. SHEEHY: SURE. AND BY THE WAY, I JUST
25 WANT TO COMPLIMENT STAFF AND THEIR LEADERSHIP IN

BARRISTERS' REPORTING SERVICE

1 THIS.

2 NO. 1, I THINK THE EXCEPTIONS ROUTE IS
3 VERY CREATIVE. IT GIVES ANOTHER DOOR IN. AND SO I
4 THINK THAT'S A NICE INNOVATION IN THIS ROUND.

5 BUT WE HAD A VERY GOOD PROGRAMMATIC
6 REVIEW. AND I THINK IF PEOPLE LOOK AT THE
7 SUMMARIES, I THOUGHT THAT THIS WAS ONE OF THE MOST
8 CREATIVE PROGRAMMATIC REVIEWS. AND I THOUGHT STAFF
9 WAS VERY AGGRESSIVE IN TRYING TO MAXIMIZE THE
10 UTILITY OF THE REVIEW. THEY OFFERED TO SOME OF THE
11 GRANTEES REALLY AN OPTION, RIGHT. WHILE THEY HAD
12 VERY GOOD PROPOSALS, SOME OF THEM SEEMED LIKE THEY
13 WERE REALLY ON THE CUSP OF BEING EITHER AN EARLY
14 TRANSLATION AWARD OR A DISEASE TEAM. AND THEY GAVE
15 THEM THE OPTION OF BYPASSING THROUGH THE
16 PROGRAMMATIC REVIEW, OBVIOUSLY WITH THE ADVICE OF
17 THE SCIENTIST AND THE PATIENT ADVOCATES
18 PARTICIPATING IN THE REVIEW, THE OPTION OF BYPASSING
19 THE PREAP PROCESS, GOING DIRECTLY INTO THE EARLY
20 TRANSLATION ROUND, WHICH I BELIEVE IS THIS FALL I
21 THINK IS WHEN THE APPLICATIONS ARE IN.

22 SO THAT REALLY GIVES GRANTEES, I THINK,
23 WITH THE ADVICE FROM WHAT I THOUGHT WAS AN
24 EXTRAORDINARY WORKING GROUP, AS WE MOVED DOWN THE
25 CLINICAL PATHWAY, THE ABILITY OF STAFF TO ASSEMBLE A

BARRISTERS' REPORTING SERVICE

1 REALLY DIVERSE GROUP OF REVIEWERS WITH INCREDIBLE
2 EXPERIENCE, ESPECIALLY I THINK IN THE REGULATORY
3 SIDE, HAS JUST BEEN ASTOUNDING. AT LEAST TO ME.
4 WE'VE GOTTEN KIND OF OUT OF THE SCIENCE AND HOW DO
5 WE MAKE THIS WORK. SO THAT OPTION, I THINK, WAS A
6 REALLY INTERESTING INNOVATION THAT THEY BROUGHT TO
7 THIS PROCESS THAT THE WORKING GROUP EMBRACED.

8 AND I ALSO THINK THAT THE CONDITIONS THAT
9 WERE BROUGHT. AND, AGAIN, I THINK THE DISCUSSION
10 THAT STAFF HAS PUT TOGETHER ABOUT THE PROGRAMMATIC
11 REVIEW, WHICH IS AT THE FIRST COUPLE OF PAGES AFTER
12 THE SCORES, IS VERY HELPFUL TO READ THROUGH BECAUSE
13 THERE WERE SOME QUESTIONS THAT, IF FOLKS COULD
14 ANSWER THOSE QUESTIONS BY THE TIME THE APPLICATIONS
15 NEEDED TO BE SUBMITTED FOR THE BIG, SO TO SPEAK, FOR
16 THE BIG MONEY, THEY'D HAVE A GOOD SHOT AT IT. IF
17 THEY REALLY COULDN'T GET THE ANSWER TO THESE
18 QUESTIONS, IT REALLY WASN'T SENSIBLE FOR THEM TO
19 THINK THAT THEY HAD AN OPPORTUNITY TO GET THIS
20 FUNDING.

21 SO I DON'T KNOW HOW MUCH MORE DETAIL. I
22 DO KNOW THAT WE HAVE SOME NEW FOLKS. WOULD IT BE
23 HELPFUL TO KIND OF DESCRIBE HOW PROGRAMMATIC REVIEW
24 WORKS WITH THE --

25 DR. FIRESTEIN: WE HAVE SOME EXPERIENCE.

BARRISTERS' REPORTING SERVICE

1 MR. SHEEHY: IN GENERAL I THOUGHT THAT
2 THIS WAS AN OUTSTANDING SESSION, AND AGAIN KUDOS TO
3 STAFF. GREAT JOB.

4 DR. FEIGAL: WHAT I HAVE -- WHAT WE HAVE
5 HANDED OUT, THE TOOL THAT YOU SAW FOR ITEM NO. 6,
6 WHAT WE DID, IT'S NOT TO PREJUDGE HOW YOU WANT TO
7 MAKE YOUR FINAL DECISION, BUT WHAT WE DID IS WE
8 DROPPED IN WHERE THESE PLANNING AWARDS THAT ARE
9 RECOMMENDED FIT IN THE PORTFOLIO. SO THE SECOND
10 HANDOUT THAT YOU RECEIVED DURING THE BREAK DROPS IN
11 THE RECOMMENDED PLANNING AWARDS.

12 CHAIRMAN THOMAS: DR. SAMBRANO, DO YOU
13 HAVE SOME ADDITIONAL COMMENTS?

14 DR. SAMBRANO: NO. I THINK THIS SLIDE
15 JUST HIGHLIGHTS THOSE THAT HAVE A CONDITION ATTACHED
16 TO THEM. AND THEN WHENEVER YOU'RE READY, I WILL
17 BRING UP THE PROJECTION FOR THE SET OF APPLICATIONS
18 AND THEIR RANK ORDER.

19 CHAIRMAN THOMAS: I THINK BEFORE WE GET
20 INTO THE SPECIFICS, I BELIEVE WE HAVE ONE
21 EXTRAORDINARY PETITION WOULD LIKE TO MAKE A COMMENT
22 HERE. PLEASE COME TO THE PODIUM. THANK YOU.

23 DR. SOO: THANK YOU. I WANT TO THANK
24 CHAIRMAN THOMAS, PRESIDENT TROUNSON, AND ICOC
25 MEMBERS FOR HEARING OUR PETITION. I AM DR. CHIA

BARRISTERS' REPORTING SERVICE

1 SOO, THE PLANNING LEADER. AND I AM SPEAKING ON
2 BEHALF OF DR. JOHN ADAMS, THE PRINCIPAL
3 INVESTIGATOR, WHO UNFORTUNATELY COULD NOT BE HERE
4 TODAY, AND OUR ENTIRE DISEASE TEAM ON OUR PROPOSAL
5 TITLED "REGENERATING BONE IN PATIENTS WITH
6 OSTEOPOROSIS."

7 NOW, JUST TO GIVE YOU AN IDEA OF HOW
8 CRITICAL THIS PROBLEM IS, IF YOU TAKE A LOOK AROUND
9 THIS ROOM, ONE IN TWO WOMEN AND ONE IN FOUR MEN
10 AFTER AGE 50 WILL SUFFER AN OSTEOPOROTIC FRACTURE,
11 AND FULLY HALF OF THESE FRACTURES WILL BE VERTEBRAL
12 COMPRESSION FRACTURES IN WHICH THE OSTEOPOROTIC
13 VERTEBRAL BODY SIMPLY COLLAPSES. UNLESS THIS
14 COLLAPSE IS CORRECTED TO RESTORE NORMAL VERTEBRAL
15 HEIGHT AND ALIGNMENT, PROGRESSIVE KYPHOSIS OR
16 HUMPBACK DEFORMITY DEVELOPS THAT CAN CAUSE LONG-TERM
17 COMPLICATIONS OF IMPAIRED LUNG FUNCTION, SEVERE
18 PAIN, AND INCREASED DEATH.

19 OUR CANDIDATE PRODUCT IS THE ONLY ONE IN
20 THE CIRM PORTFOLIO THAT IS SPECIFICALLY DESIGNED TO
21 RESTORE VERTEBRAL HEIGHT AND ALIGNMENT AND PREVENT
22 KYPHOSIS COMPLICATIONS BY STIMULATING THE PATIENT'S
23 OWN STEM CELLS TO RESTORE THE LOST BONE AND
24 FUNCTION. HOWEVER, THERE WERE SOME FUNDAMENTAL
25 MISCONCEPTIONS IN OUR GRANT REVIEW THAT WE WANT TO

BARRISTERS' REPORTING SERVICE

1 ADDRESS.

2 FIRST, I WILL DESCRIBE OUR CANDIDATE
3 PRODUCT; SECOND, HIGHLIGHT OUR RESPONSE TO THE
4 REVIEWERS' COMMENTS; AND, THIRD, PROVIDE A GENERAL
5 SUMMARY.

6 AS YOU KNOW, THE FDA BROADLY REGULATES
7 MEDICAL PRODUCTS SUCH AS A DRUG, A BIOLOGIC, OR A
8 DEVICE. AS WE WROTE IN OUR GRANT, WE ALREADY HAVE
9 MET WITH THE FDA, AND THEY ALREADY DETERMINED THAT
10 OUR CANDIDATE PRODUCT WILL BE REGULATED AS A DEVICE
11 AND NOT AS A BIOLOGIC OR A DRUG. THIS MEANS THAT
12 OUR PROJECT WILL REQUIRE SIGNIFICANTLY LESS TIME,
13 LESS HUMAN SUBJECT NUMBERS, AND LESS COSTS BEFORE
14 FDA APPROVAL BECAUSE DEVICES TYPICALLY REQUIRE
15 TWO-PHASED RATHER THAN THREE-PHASED CLINICAL TRIALS.

16 AND THE REASON THAT OUR PRODUCT IS A
17 DEVICE AND ON A SHORTER FDA APPROVAL TIMELINE IS
18 THAT THREE OF THE FOUR MAIN COMPONENTS ARE ALREADY
19 FDA APPROVED FOR HUMAN USE AS DEVICES. SO OUR
20 DEVICE CONSISTS OF A MESH BAG ALREADY FDA APPROVED
21 TO HOLD BONE PARTICLES, HUMAN BONE PARTICLES, THAT
22 ARE ALSO ALREADY FDA APPROVED, AND THE NELL BIOLOGIC
23 PROTEIN FREEZE DRIED ONTO SYNTHETIC FDA APPROVED
24 BONE PARTICLES.

25 SO EXCEPT FOR THE NELL-1 PROTEIN THAT

BARRISTERS' REPORTING SERVICE

1 STIMULATES THE PATIENT'S OWN STEM CELLS, EACH OF THE
2 THREE COMPONENTS, THAT IS, THE MESH, THE HUMAN BONE,
3 AND THE SYNTHETIC BONE PARTICLES, ARE ALREADY
4 INDIVIDUALLY FDA APPROVED AS DEVICES FOR HUMAN BONE
5 DEFECTS. AND THE NELL-1 PROTEIN ITSELF IS ALREADY
6 IN CGMP COMPLIANT PRODUCTION. SO ALL WE WANT TO DO,
7 AS DESCRIBED IN OUR APPLICATION, IS TO COMBINE THE
8 HUMAN BONE AND THE NELL-1 CODED SYNTHETIC BONE
9 PARTICLES BY SIMPLE MIXING AND THEN PUTTING THAT
10 MIXTURE IN A MESH BAG WITHIN THE COLLAPSED VERTEBRAL
11 BODY SO THAT THE MORE WE CAN FILL THE MESH BAG WITH
12 THE BONE PARTICLES, THE MORE WE CAN REEXPAND THE
13 COLLAPSED VERTEBRAL BODY TO RESTORE NORMAL VERTEBRAL
14 HEIGHT AND ALIGNMENT.

15 CURRENTLY THE ONLY FDA APPROVED DEVICES
16 FOR RESTORING VERTEBRAL HEIGHT INVOLVES BALLOON
17 INFLATION AND INJECTION OF A TOXIC CEMENT INTO THE
18 COLLAPSED VERTEBRAL BODY. AS DESCRIBED IN OUR
19 APPLICATION, OUR DEVICE WILL NOT ONLY RESTORE NORMAL
20 VERTEBRAL HEIGHT AND ALIGNMENT, BUT IT WILL ALSO BE
21 A SIGNIFICANT IMPROVEMENT OVER THE USE OF TOXIC
22 CEMENT BECAUSE OUR DEVICE WILL USE A NELL-1 BIOLOGIC
23 TO RECRUIT LOCAL STEM CELLS AND RESTORE THE LOST
24 BONE.

25 NOW, WITH RESPECT TO THE SIX MAJOR

BARRISTERS' REPORTING SERVICE

1 REVIEWERS' COMMENTS, THE WRITTEN PETITION HAS A
2 DETAILED POINT-BY-POINT RESPONSE BASED ON
3 INFORMATION ORIGINALLY PROVIDED IN OUR GRANT. SO IN
4 THE INTEREST OF TIME, I'M JUST GOING TO FOCUS ON
5 COMMENT TWO, AS IT REALLY WAS THE MAJOR CRITIQUE IN
6 WHICH ONE REVIEW STATED THAT OUR PROPOSED COMPARISON
7 CONTROL, WHICH IS THE BALLOON INFLATION FOLLOWED BY
8 TOXIC CEMENT INJECTION, IT'S CALLED KYPHOPLASTY,
9 WHICH IS THE CURRENT PRACTICE FOR RESTORING
10 VERTEBRAL HEIGHT, WAS NOT EFFECTIVE FOR VERTEBRAL
11 COMPRESSION FRACTURES. AS SUPPORT, THE REVIEWER
12 CITED TWO *NEW ENGLAND JOURNAL* STUDIES.

13 THIS IS LIKE COMPARING APPLES AND ORANGES
14 BECAUSE THE PROCEDURE DESCRIBED IN *NEW ENGLAND*
15 *JOURNAL* DOES NOT RESTORE VERTEBRAL HEIGHT AND IS A
16 COMPLETELY DIFFERENT PROCEDURE FROM OUR PROPOSED
17 CONTROL, WHICH IS CALLED KYPHOPLASTY.

18 FURTHERMORE, THE DESIGN OF TWO *NEW ENGLAND*
19 *JOURNAL* STUDIES GENERATED SIGNIFICANT CONTROVERSY AT
20 THE TIME IN LETTERS TO THE EDITOR, AND THEIR
21 FINDINGS WERE LATER REFUTED IN A LARGER *LANCET* STUDY
22 WITH MORE CAREFUL EXPERIMENTAL DESIGN.

23 NEXT, I WANT TO STRESS THAT OUR PROPOSAL
24 ADDS SIGNIFICANT PROGRAMMATIC DIVERSITY TO CIRM'S
25 PORTFOLIO BECAUSE NOT ONLY IS OUR DEVICE THE ONLY

BARRISTERS' REPORTING SERVICE

1 THERAPEUTIC AIMING TO RESTORE NORMAL VERTEBRAL
2 HEIGHT AND ALIGNMENT, BUT OURS IS THE ONLY
3 THERAPEUTIC THAT WILL BE REGULATED AS A DEVICE USING
4 THE PMA OR PREMARKET APPROVAL PATHWAY RATHER THAN
5 THE BLA OR BIOLOGIC LICENSE, OR NDA, THE NEW DRUG
6 APPLICATION PATHWAYS. THIS MEANS THAT OUR PRODUCT
7 REQUIRES LESS TIME, LESS SUBJECT NUMBERS, LESS COST,
8 AND CAN BE ON A FASTER FDA APPROVAL TRACK, AND THUS
9 REACH THE LARGEST NUMBER OF CALIFORNIANS SOONER.

10 SO IN LIGHT OF THE MAJOR MISCONCEPTION
11 ABOUT OUR APPLICATION, AND TO INCREASE THE CIRM
12 PORTFOLIO DIVERSITY, I RESPECTFULLY PETITION THE
13 ICOC TO FUND OUR PLANNING AWARD OR, AT THE VERY
14 MINIMUM, TO ALLOW US AN EXCEPTION TO APPLY FOR THE
15 DISEASE TEAM AWARD. THANK YOU.

16 CHAIRMAN THOMAS: THANK YOU FOR YOUR
17 PRESENTATION. FOLLOWING THE REPORT ON THOSE AWARDS
18 THAT WE ARE CONSIDERING, WE'RE GOING TO BE HEADING
19 INTO CLOSED SESSION. AND WE WILL ASK MEMBERS OF THE
20 BOARD AT THAT POINT IF THEY ARE INTERESTED IN --
21 JAMES, YOU'RE SHAKING YOUR HEAD HERE.

22 ARE THERE MEMBERS -- I'VE JUST BEEN TOLD
23 WE NEED TO DO IT IN OPEN SESSION. SO ARE THERE
24 MEMBERS OF THE BOARD, HAVING HEARD THIS
25 PRESENTATION, THAT WOULD BE INTERESTED IN TAKING

BARRISTERS' REPORTING SERVICE

1 THIS MATTER UP?

2 DR. PRIETO: MR. CHAIRMAN, I WOULD BE
3 INTERESTED. AND I HAVE BOTH A COMMENT AND A
4 QUESTION.

5 THE FIRST COMMENT IS, AND I DON'T HAVE ANY
6 PARTICULAR SCIENTIFIC EXPERTISE DEALING WITH
7 VERTEBRAL COMPRESSION FRACTURE, BUT I HAVE CLINICAL
8 EXPERIENCE DEALING WITH IT. AND I FOUND SOME OF
9 THESE ARGUMENTS FAIRLY PERSUASIVE. VERTEBRALPLASTY
10 INDEED IS NOT ALL THE SAME AS KYPHOPLASTY. AND THE
11 STANDARD OF CARE CURRENTLY IS SORT OF BASED ON
12 RELIEF OF PAIN, AND THEY'RE TRYING TO ACCOMPLISH
13 SOMETHING MORE HERE. SO I WAS IMPRESSED THAT
14 PERHAPS THERE REALLY WAS AN APPLES-AND-ORANGES
15 ARGUMENT THAT WAS NOT APPARENT AT THE REVIEW.

16 BUT MY OTHER QUESTION WAS SINCE YOU ARE
17 COMBINING THE BIOLOGIC WITH THE CARRIER MATRIX,
18 DOESN'T THAT POTENTIALLY TAKE YOU OUT OF THE DEVICE
19 APPROVAL CATEGORY?

20 DR. SOO: NO. IN TERMS OF THE PRIMARY
21 MODE OF ACTION, AND IF YOU LOOK AT HISTORICALLY WHAT
22 CDHR, THE CENTERS FOR DEVICE AND RADIOLOGIC HEALTH,
23 HAS REGULATED, THEY REGULATE BMP II AS A DEVICE. SO
24 AS A COMBINATION DEVICE. SO BMP II AS AN
25 OSTEOINDUCTIVE FACTOR IS REGULATED UNDER THE DEVICE

BARRISTERS' REPORTING SERVICE

1 PATHWAY. AND FOR THEIR CLINICAL APPROVAL, THEY JUST
2 REQUIRED PILOT AND PIVOTAL STUDIES.

3 AND SO WE'VE ALREADY MET WITH THE FDA, AND
4 WE SAID THIS IS WHAT OUR COMBINATION DEVICE IS.
5 WHAT APPROVAL PATHWAY ARE WE GOING TO BE? AND THEY
6 TOLD US IT'S GOING TO BE PRIMARILY REGULATED UNDER
7 CDRH, SO THAT MEANS PILOT STUDIES, PIVOTAL STUDIES
8 AS OPPOSED TO BLA'S OR NDA'S THAT REQUIRE PHASE I,
9 PHASE II, AND PHASE III.

10 CHAIRMAN THOMAS: I BELIEVE DR. FEIGAL AND
11 DR. SAMBRANO BOTH HAVE POINTS TO MAKE ON THIS
12 QUESTION.

13 DR. FEIGAL: MY ONLY POINT REALLY WAS JUST
14 IN RESPONSE TO THAT, I HAVE A LOT OF BACKGROUND WITH
15 FDA ISSUES. AND ACTUALLY, IN GENERAL, BONE, EVEN IF
16 IT INVOLVES CELLULAR ISSUES, IF IT'S ON A SCAFFOLD,
17 GENERALLY GOES TO CDRH. THAT ACTUALLY ISN'T A NEW
18 PRECEDENT. THAT'S SOMETHING THEY'VE DONE.

19 DR. SAMBRANO: MY COMMENT WAS MORE ABOUT
20 THE PROCESS THAT I THINK WE'VE ADOPTED IN THE PAST
21 IN TERMS OF EXTRAORDINARY PETITIONS. I THINK I JUST
22 WANT TO HIGHLIGHT SOME OF THIS FOR YOUR INFORMATION.

23 SO WHEN WE RECEIVE AN EXTRAORDINARY
24 PETITION, THIS IS BASED ON THE SET OF RULES THAT
25 WERE ESTABLISHED BY THE BOARD IN ORDER FOR

BARRISTERS' REPORTING SERVICE

1 APPLICANTS TO PROVIDE WHAT THEY FEEL IS AN
2 EXTRAORDINARY CIRCUMSTANCE FOR YOU TO CONSIDER.
3 GENERALLY, UNLESS YOU FEEL IT'S IMPORTANT OR THERE
4 ARE ISSUES THAT YOU SHOULD CONSIDER, IT DOES NOT
5 NECESSARILY NEED TO BE BROUGHT UP IN THE COURSE OF
6 THE MEETING.

7 AND THE OTHER THING THAT WE HAVE DONE IN
8 THE PAST THAT WE ARE NO LONGER DOING IS PROVIDING
9 POINT-BY-POINT COMMENTS ON THE COMMENTS PROVIDED BY
10 THE APPLICANT. SO IN OTHER WORDS, CIRM DOES NOT
11 HAVE A SPECIFIC RESPONSE TO THESE POINTS UNLESS WE
12 REALLY FEEL THERE IS SOMETHING THAT YOU NEED TO
13 CONSIDER.

14 SO I THINK IN TERMS OF THE COMMENTS THAT
15 WERE BROUGHT UP IN THIS PETITION, THERE ARE MANY
16 THAT REPRESENT, I THINK, A DIFFERENCE OF SCIENTIFIC
17 OPINION. OVERALL, IN GENERAL, THERE'S NOTHING THAT
18 WE FEEL WOULD NOT NECESSARILY OVERCOME WHAT WAS THE
19 RECOMMENDATION BY THE GRANTS WORKING GROUP ITSELF.
20 I THINK SOME OF THOSE POINTS MIGHT NEED TO BE
21 DISCUSSED IN CONFIDENTIAL SESSION DUE TO
22 CONFIDENTIAL NATURE OF THOSE POINTS. BUT IN TERMS
23 OF JUST THE OVERALL GENERAL PROCESS, THAT IS WHAT WE
24 HAVE OBSERVED.

25 MR. HARRISON: I JUST WANTED TO REMIND

BARRISTERS' REPORTING SERVICE

1 BOARD MEMBERS BECAUSE WE'RE NOW DISCUSSING A
2 SPECIFIC APPLICATION, EACH OF YOU HAVE A SHEET IN
3 FRONT OF YOU THAT IDENTIFIES THE APPLICATIONS THAT
4 HAVE BEEN IDENTIFIED AS PRESENTING CONFLICTS. SO
5 PLEASE REFRAIN FROM DISCUSSING OR PARTICIPATING IN
6 ANY MOTION RELATING TO AN APPLICATION ON YOUR LIST.

7 CHAIRMAN THOMAS: MR. SHEEHY.

8 MR. SHEEHY: 5346. I JUST HAD A QUESTION
9 FOR STAFF. SINCE WE HAVE THE EXTRAORDINARY PETITION
10 AND WE'RE DISCUSSING THIS, IS IT POSSIBLE TO GET THE
11 SCORES AND THE HIGHS, LOWS, STANDARD DEVIATION?
12 THAT'S A LITTLE BIT HELPFUL TO GIVE US A FRAMEWORK.

13 DR. JUELGAARD: THANK YOU, CHAIRMAN
14 THOMAS. LET ME ASK THE PRESENTER. SO YOU SAID YOU
15 MET WITH THE FDA, AND THE FDA IS A REALLY BIG
16 ORGANIZATION. CAN YOU TELL ME WHAT PARTICULAR
17 BRANCH OF THE FDA YOU MET WITH? AND IN PARTICULAR
18 DID YOU MEET WITH EITHER REPRESENTATIVES OF CDER,
19 THAT IS THE CENTER FOR DRUG EVALUATION AND RESEARCH,
20 OR CBER, THE CENTER FOR BIOLOGICS EVALUATION AND
21 RESEARCH? DID YOU MEET WITH REPRESENTATIVES OF
22 EITHER OF THOSE TWO ORGANIZATIONS?

23 DR. SOO: WE MET WITH REPRESENTATIVES OF
24 CDRH. WE SUBMITTED A WRITTEN PACKET, A PRE-IDE
25 PACKET, AND HAD THEM COMMENT ON WHICH REGULATORY

BARRISTERS' REPORTING SERVICE

1 PATHWAY.

2 DR. JUELSGAARD: SO THAT ORGANIZATION,
3 BASED ON MY EXPERIENCE WITH THE FDA, DON'T SPEAK FOR
4 EITHER CDER OR CBER. THOSE ORGANIZATIONS SPEAK FOR
5 THEMSELVES. SO WHAT YOU ARE TALKING ABOUT DOING,
6 AND I'M GOING TO CHALLENGE THE NOTION THAT THIS WILL
7 NOT BE SUBJECT TO EITHER AN NDA OR MORE LIKELY A
8 BLA, PARTICULARLY WITH THE NELL-1 PROTEIN. SO THE
9 NELL-1 IS A PROTEIN. IT'S GOING TO BE DELIVERED
10 FROM OUTSIDE THE BODY TO INSIDE THE BODY. IT'S
11 GOING TO HAVE AN ACTIVITY, IF IT WORKS, INSIDE THE
12 BODY. AND IT'S GOING TO BE PRODUCED IN CELL
13 CULTURE. ALL OF THOSE ARE EXACTLY IDENTICAL TO WHAT
14 EXISTING PHARMACEUTICAL PROTEIN PRODUCTS DO TODAY,
15 AND THERE ARE A LARGE NUMBER OF THEM, AND ALL OF
16 THEM ARE SUBJECT TO THE BLA OR NDA PROCESS BOTH FOR
17 APPROVAL OF THE PRODUCT ITSELF, BUT ALSO FOR
18 APPROVAL OF THE PROCESS FOR MAKING THE PRODUCT.

19 I UNDERSTAND THAT YOU HAVE A GMP-COMPLIANT
20 PROCESS RIGHT NOW. BUT ULTIMATELY THE PROCESS IS
21 GOING TO HAVE TO BE APPROVED BY THE FDA IN THAT IT
22 HAS TO OPERATE WITHIN VERY SMALL TOLERABLE
23 LIMITATIONS SO THAT YOU HAVE ESSENTIALLY, BECAUSE
24 THIS IS ALL BEING PRODUCED IN LIVING ORGANISMS, THE
25 SAME OR RELATIVELY THE SAME PRODUCT BEING PRODUCED

BARRISTERS' REPORTING SERVICE

1 ON AN ONGOING BASIS.

2 SO I HAVE A FAIR AMOUNT OF SKEPTICISM THAT
3 THIS WILL NOT REQUIRE BOTH APPROVAL ON THE DRUG SIDE
4 AS WELL AS ON THE DEVICE SIDE.

5 DR. SOO: WELL, I FULLY APPRECIATE YOUR
6 COMMENTS. I THINK WHAT DR. FEIGAL HAD COMMENTED ON
7 HISTORICALLY IS THAT BONE REGENERATION PRODUCTS OR
8 PROTEINS SUCH AS BMP-2 CDRH HAS TAKEN THE LEAD.
9 NOW, THAT'S NOT TO SAY THAT CBER OR CDER MAY NOT
10 COME IN AND CONSULT, BUT THE FACT IS THAT CDRH TAKES
11 THE LEAD. AND THE CLINICAL TRIALS THAT WE HAVE TO
12 UNDERTAKE ARE DIVIDED INTO THE PILOT STUDY AND THE
13 PIVOTAL STUDIES.

14 AND SO THE POINT I'M MAKING IS NOT THAT
15 CBER OR CDER ARE TOTALLY NOT GOING TO BE INVOLVED.
16 IT'S WHO IS GOING TO BE THE PRIMARY. AND IF YOU
17 LOOK AT BMP-2, THAT IS A PROTEIN PRODUCED IN CHO
18 CELLS. THAT IS A BIOLOGIC. THAT IS REGULATED
19 UNDER -- CDRH TAKES THE PRIMARY, AND THEY UNDERWENT
20 PILOT AND PIVOTAL STUDIES FOR THE ORIGINAL BMP-2
21 APPROVAL. NOW, EVEN RECENTLY BMP-2 TRIED OR
22 MEDTRONICS TRIED TO HAVE A HIGHER DOSE BMP-2
23 APPROVED IN THEIR PRODUCT CALLED AMPLIFY. EVEN THAT
24 WAS UNDER CDRH IN TERMS OF THEY HAD PILOT AND
25 PIVOTAL STUDIES. IN THEIR PIVOTAL STUDIES, THEY HAD

BARRISTERS' REPORTING SERVICE

1 LESS THAN 500 PATIENTS. THEY HAD 200 SOMETHING
2 PATIENTS IN EACH ARM, SO THEY STILL WENT THROUGH THE
3 PILOT AND PIVOTAL.

4 THAT'S THE MAIN POINT I'M MAKING; THAT IS,
5 OUR PATHWAY COULD POTENTIALLY SAVE SIGNIFICANT TIME
6 BECAUSE YOU DO NOT HAVE TO DO THE THREE TYPICAL
7 PHASES.

8 DR. JUELSGAARD: NO. MY POINT IS, RATHER,
9 THAT THE APPROVAL PROCESS IS NOT SIMPLY A DEVICE
10 APPROVAL PROCESS. IT'S BOTH A DEVICE AND A
11 BIOLOGICS APPROVAL PROCESS. AND PART OF THAT
12 APPROVAL PROCESS WILL BE THE FDA, IN PARTICULAR
13 CBER -- NO, CDER IN THIS CASE, WILL WANT TO BE
14 ASSURED OF THE SAFETY AND EFFICACY OF THE MOLECULE
15 BECAUSE THAT'S THEIR PROVINCE, AS WELL AS ASSURANCES
16 OF THE MEANS OF PRODUCING IT THAT WANT TO APPROVE
17 THAT PRODUCTION PROCESS.

18 IT WOULD BE INCONCEIVABLE TO ME THAT YOU
19 WOULD ESCAPE THAT PARTICULAR ASPECT OF THE APPROVAL
20 PROCESS. AND THAT'S NOT AN UNTIME-CONSUMING
21 PROCESS.

22 DR. SOO: YOU ARE EXACTLY RIGHT OF THAT.
23 THE TIME AND COST SAVINGS THAT I'M TALKING ABOUT IS
24 THE TWO-PHASE CLINICAL TRIAL COMPONENT AND THAT YOU
25 DO NOT HAVE TO HAVE THREE-PHASE TRIALS, IN WHICH

BARRISTERS' REPORTING SERVICE

1 CASE YOU WOULD SAVE TIME, SAVE THE NUMBER OF HUMAN
2 SUBJECTS THAT YOU WOULD NEED TO RECRUIT BECAUSE YOU
3 ARE DOING ONE LESS PHASE, AND ALSO THAT WOULD
4 DECREASE OVERALL TIME AND COST.

5 ANY OTHER QUESTIONS?

6 CHAIRMAN THOMAS: ANY OTHER COMMENTS BY
7 BOARD MEMBERS?

8 SO, MR. HARRISON, AT THIS STAGE, HAVING
9 NOW HEARD THE PETITION, WHAT IS THE APPROPRIATE NEXT
10 STEP, IF ANY?

11 MR. HARRISON: THERE'S NO ADDITIONAL STEP
12 REQUIRED. IF A BOARD MEMBER WOULD LIKE MORE
13 INFORMATION FROM STAFF OR WOULD LIKE TO MAKE A
14 MOTION, THEY'RE FREE TO DO SO. BUT OTHERWISE, YOU
15 CAN MOVE ON TO OTHER APPLICATIONS OF INTEREST TO
16 BOARD MEMBERS OR OTHER QUESTIONS.

17 DR. PRIETO: WOULD THE MOTION BE TO
18 CONSIDER THE EXTRAORDINARY PETITION?

19 MR. HARRISON: WELL, NO. TYPICALLY WE
20 WOULD HAVE SOME DISCUSSION, IF THERE IS ANY. IF
21 THERE'S ANY PROPRIETARY INFORMATION YOU'D WANT TO
22 REVIEW, WE'D DO THAT IN CLOSED SESSION, AND THEN A
23 MOTION TO MOVE THE APPLICATION INTO THE FUNDING
24 CATEGORY WOULD OCCUR AFTER A CLOSED SESSION.

25 MS. LANSING: WE DON'T NEED TO MOVE TO

BARRISTERS' REPORTING SERVICE

1 TALK ABOUT IT.

2 MR. HARRISON: PRECISELY.

3 DR. BRYANT: WHAT ABOUT IF WE WANTED TO
4 MOVE THAT IT COULD BE SUBMITTED WITHOUT A PLANNING
5 GRANT? WHERE WOULD THAT MOTION COME FROM?

6 MR. HARRISON: WE WOULD HAVE TO GIVE THAT
7 A LITTLE BIT OF ADDITIONAL THOUGHT BEFORE RESPONDING
8 SIMPLY BECAUSE IT WAS NOT CONTEMPLATED IN THE RFA.

9 DR. PRIETO: I WOULD LIKE TO HEAR MORE IN
10 CLOSED SESSION AND KEEP THE POSSIBILITY OF BRINGING
11 IT UP OPEN.

12 CHAIRMAN THOMAS: I THINK THAT IS THE
13 APPROPRIATE FORUM GIVEN THAT IT WOULD INVOLVE
14 PROPRIETARY INFORMATION. SO I BELIEVE THAT WILL, AS
15 PER DR. PRIETO'S REQUEST, THAT WILL BE THE ORDER
16 HERE. YES, MR. SHEEHY.

17 MR. SHEEHY: I JUST WANTED TO GET THE
18 SCORES. I JUST THINK IT'S VERY HELPFUL. WE DIDN'T
19 GET THE SCORES FOR GRANTS THAT DIDN'T -- I THINK
20 THAT THAT WILL GIVE US A BETTER SENSE OF WHAT WE'RE
21 WORKING WITH. AS YOU LOOK, IT'S NOT SCORED ON
22 THERE.

23 DR. SAMBRANO: SO THIS IS APPLICATION
24 5346, WHICH SITS TWO BELOW THE HIGHEST -- THE LOWEST
25 GREEN ONE, AND THE SCORE IS A 56. THE MEDIAN IS A

BARRISTERS' REPORTING SERVICE

1 60, THE STANDARD DEVIATION IS 13, AND THE RANGE IS
2 BETWEEN 20 AND 70.

3 AND THEN I'LL JUST REMIND YOU, IN TERMS OF
4 HOW THE TIERS WERE INITIALLY SET UP, THE GREEN LINE
5 ABOVE WHICH THE INITIAL TIER I WAS FORMED WAS AT 71.
6 AND SO MANY OF THOSE OTHERS THAT YOU SEE WITH THE
7 ASTERISK OR CONDITION, THE ASTERISK IS SHOWN ON THE
8 RIGHT-HAND SIDE, THOSE ARE THE FIVE THAT ARE THE
9 LOWEST IN TIER I HAD SPECIAL CONDITIONS ATTACHED.
10 AND SO THIS 5346 SITS AT A SCORE OF 56, TWO BELOW
11 THE LOWEST GREEN.

12 DR. STEWARD: GIL, MY QUESTION IS ABOUT
13 ACTUALLY THE STAFF REVIEW OF THESE PETITIONS. YOU
14 MENTIONED THAT YOU WERE NOT DOING THAT ANYMORE. I
15 ACTUALLY THOUGHT THAT THAT WAS VERY HELPFUL. JUST
16 CURIOUS.

17 DR. SAMBRANO: I AGREE. I THINK ONE OF
18 THE CHALLENGES THAT WE FACED IS THAT WHEN WE GET A
19 PETITION ESPECIALLY COMING TWO OR THREE DAYS, AND
20 I'M NOT SUGGESTING THAT THIS ONE DID, BUT OFTEN WHEN
21 WE GOT FLOODED WITH THESE, IT WAS ACTUALLY DIFFICULT
22 TO GIVE AN APPROPRIATE ANALYSIS AND ASSESSMENT. I
23 THINK IN GENERAL WE CAN MAKE AN ASSESSMENT OF
24 WHETHER THE COMMENTS REPRESENT A DIFFERENCE OF
25 OPINION OR IF THERE IS A PARTICULAR POINT THAT MAYBE

BARRISTERS' REPORTING SERVICE

1 YOU SHOULD CONSIDER. SO IN THAT CONTEXT WHAT WE
2 DECIDED TO DO WAS BRING TO YOU THINGS THAT WE
3 THOUGHT WERE OF CONCERN OR ISSUE THAT WE FELT YOU
4 NEEDED TO ADDRESS. AND UNLESS THAT HAPPENS, THAT WE
5 WEREN'T GOING TO NECESSARILY DO A POINT-BY-POINT
6 REBUTTAL TO THE REBUTTAL.

7 MR. ROTH: JUST ON THAT SAME LINE OF
8 QUESTIONING, I RECALL THAT EXTRAORDINARY PETITIONS
9 WERE FOR SIGNIFICANT FACTUAL ERRORS.

10 DR. SAMBRANO: NO. THE EXTRAORDINARY
11 PETITION POLICY DOESN'T REALLY DEFINE WHAT AN
12 EXTRAORDINARY CIRCUMSTANCE IS. SO IT'S REALLY THE
13 APPLICANT THAT DETERMINES WHETHER THEY FEEL IT'S AN
14 EXTRAORDINARY CIRCUMSTANCE TO BRING TO THE BOARD.

15 CHAIRMAN THOMAS: ANY OTHER COMMENTS?
16 OKAY. WE WILL NOW MOVE ON TO THE 19 RECOMMENDED
17 AWARDS. DR. SAMBRANO, DO YOU HAVE SOME PRELIMINARY
18 COMMENTS ON THAT? ARE THERE ANY PARTICULAR AWARDS
19 IN THAT GROUP THAT MEMBERS OF THE BOARD WOULD LIKE
20 TO HEAR SOME MORE INFORMATION ABOUT?

21 DR. STEWARD: SO IT MIGHT BE USEFUL TO
22 TALK ABOUT 05357 AND WHY IT IS WHERE IT IS AND NOT
23 RECOMMENDED FOR FUNDING BEFORE WE MOVE TO ANYTHING
24 ELSE.

25 DR. SAMBRANO: DR. SCHEINER.

BARRISTERS' REPORTING SERVICE

1 DR. FEIGAL: I'M JUST GOING TO SAY, AS YOU
2 HAVE QUESTIONS, WE'RE GOING TO HAVE THE SPECIFIC
3 SCIENCE OFFICER WHO'S FAMILIAR WITH THE APPLICATION
4 RESPOND.

5 DR. SCHEINER: SO, CHAIR THOMAS, MEMBERS
6 OF THE BOARD, MEMBERS OF THE PUBLIC, I'D BE HAPPY TO
7 PROVIDE A BRIEF INTRODUCTION TO APPLICATION 5357,
8 NEURAL STEM CELL MEDIATED THERAPY FOR PEDIATRIC
9 BRAIN TUMORS, AS WELL AS HIGHLIGHTS FROM THE GRANTS
10 WORKING GROUP REVIEW.

11 THIS APPLICATION IS FOCUSED ON A NEURAL
12 STEM CELL OR MSC THERAPY FOR CHILDREN WITH SEVERAL
13 TYPES OF MALIGNANT BRAIN TUMORS. THE APPLICANT
14 PROPOSES TO DEVELOP NSC'S THAT ARE GENETICALLY
15 MODIFIED WITH AN ENZYME THAT CONVERTS A
16 SYSTEMATICALLY ADMINISTERED PRO DRUG INTO ITS MORE
17 ACTIVE FORM.

18 SO YOU MAY HAVE HEARD OF THIS APPROACH
19 BEFORE, SOME OF OUR OTHER FUNDED GRANTS. THE
20 GENERAL IDEA IS THAT THESE TRANSPLANTED NEURAL STEM
21 CELLS WILL MIGRATE TO BRAIN TUMORS WHERE THEY'LL
22 CONVERT A SYSTEMICALLY ADMINISTERED PRO DRUG TO AN
23 ACTIVE DRUG. SO, IN EFFECT, PROVIDING A HIGHLY
24 LOCALIZED DOSE OF CHEMOTHERAPY.

25 DURING THE RESEARCH AWARD, THE APPLICANT

BARRISTERS' REPORTING SERVICE

1 PROPOSES TO FILE AN IND WITH THE FDA AS WELL AS
2 CONDUCT A PHASE I/II CLINICAL TRIAL WITH TWO ARMS
3 FOR DIFFERENT PATIENT POPULATIONS.

4 SO IN THE GRANTS WORKING GROUP REVIEW, THE
5 REVIEWERS VIEWED THE MAIN STRENGTHS OF THE
6 APPLICATION AS A SIGNIFICANT UNMET MEDICAL NEED OF
7 PEDIATRIC BRAIN TUMORS AND THE FEASIBILITY OF THE
8 PROJECT. THE KEY WEAKNESSES NOTED BY THE REVIEWERS
9 INCLUDED THE SIMILARITY OF THIS PROJECT WITH AN
10 EXISTING CIRM DISEASE TEAM AWARD, CERTAIN ASPECTS OF
11 THE SCIENTIFIC RATIONALE I'D BE HAPPY TO DISCUSS IF
12 YOU ARE INTERESTED, AND THE APPROPRIATENESS OF ONE
13 OF THE TARGETED TUMOR TYPES, AS WELL AS THE PI'S
14 LACK OF EXPERIENCE LEADING CLINICAL PROGRAMS.

15 SO THERE WAS A THOROUGH DISCUSSION OF THIS
16 APPLICATION IN PROGRAMMATIC REVIEW. AND DURING THIS
17 DISCUSSION, REVIEWERS SUGGESTED THAT OUTCOMES AND
18 RESULTS FROM THE ONGOING CIRM DISEASE TEAM PROJECT
19 AND A RELATED CLINICAL TRIAL COULD HAVE SIGNIFICANT
20 IMPACT ON THIS PROPOSAL. AND THEY SUGGESTED IT
21 WOULD BE PRUDENT TO WAIT FOR ADDITIONAL DATA
22 GENERATED BY THESE PROJECTS.

23 SO A MOTION WAS MADE TO MOVE THIS
24 APPLICATION INTO TIER III, NOT RECOMMENDED FOR
25 FUNDING, AND THAT MOTION CARRIED. BE HAPPY TO TAKE

BARRISTERS' REPORTING SERVICE

1 ANY QUESTIONS ABOUT THIS APPLICATION.

2 DR. STEWARD: THANK YOU VERY MUCH. I
3 WANTED TO RAISE THAT FOR DISCUSSION BECAUSE IT IS A
4 LITTLE BIT UNUSUAL IN THE WAY THE DISCUSSION WENT.
5 IT REALLY IS ONE IN WHICH THERE WAS BOTH AN ISSUE OF
6 ONGOING THINGS THAT WERE VERY SIMILAR AND ALSO THE
7 SUGGESTION THAT IT WOULD BE PRUDENT TO WAIT FOR THE
8 RESULTS OF SOME OF THOSE ONGOING THINGS. I THINK
9 THAT'S SOMETHING THAT THE BOARD SHOULD BE AWARE OF
10 AND PERHAPS DISCUSS AND WEIGH IN ON. THAT'S WHY I
11 WANTED TO RAISE IT.

12 MR. ROTH: I HAVE A QUESTION ABOUT HOW THE
13 ORIGINAL CUTOFF LINE WAS SET. IT APPEARS TO ME THAT
14 PERHAPS THE FOUR GREEN RECOMMENDED FOR FUNDING WERE
15 CONSIDERED AFTER THE FUNDING LINE WAS SET HERE. IS
16 THAT POSSIBLE?

17 MR. SHEEHY: WHAT HAPPENED IS THEY DREW
18 THE LINES VERY BROADLY. AND SOMETIMES YOU HAVE THEM
19 THEY DRAW IT TOO NARROWLY AND YOU HAVE TO MOVE STUFF
20 BACK IN. SOMETIME THEY DRAW IT VERY BROADLY AND
21 THEN YOU HAVE TO MOVE EVERYTHING OUT. SO THAT'S
22 WHAT HAPPENED HERE IS IT WAS A VERY -- IF WE GO
23 BACK, AND I DON'T KNOW IF YOU WANT, BUT DR. BERRY
24 DID A NICE JOB OF SHOWING, THE DISTRIBUTION, THEY
25 WENT WAY LOW THIS TIME FOR THEIR CUT. AND IT WAS

BARRISTERS' REPORTING SERVICE

1 LIKE -- SO THAT'S WHY IT LOOKS A LITTLE WEIRD.
2 AGAIN, IT WAS VERY ROBUST. THEY PUT A LOT -- YOU
3 HAVE TO REMEMBER THESE ARE \$100,000 AWARDS, AND A
4 LOT OF THESE THINGS ALMOST HAD GO/NO-GO DECISIONS.
5 IN FACT, IF YOU LOOK AT THE PROGRAMMATIC REVIEW,
6 THEY HAD GO/NO-GO DECISIONS BEFORE THEY CAN EVEN
7 SUBMIT THEIR APPLICATION ON SOME OF THESE.

8 SO THERE'S A CERTAIN THOROUGHNESS OF
9 LOOKING AT ALL THESE.

10 DR. TROUNSON: IT WOULD BE FAIR JUST TO
11 POINT OUT THAT THEY GOT ASTERISKS IN THE LAST FIVE,
12 SO THERE WERE SOME CONDITIONS THERE. THEY FELT
13 SUPPORTIVE, BUT ONLY WITH SOME CONDITIONS. SO THAT
14 WAS A BIT UNUSUAL. WE HADN'T DONE MUCH OF THAT,
15 VERY OCCASIONAL IN THE PAST, BUT THIS WAS A LITTLE
16 UNUSUAL IN THIS RFA TO HAVE DONE THAT, TO PROVIDE A
17 SORT OF GROUP THAT UNDER SOME CONDITIONS THEY WOULD
18 BE SUPPORTIVE, BUT NOT BROADLY.

19 DR. SAMBRANO: I HIGHLIGHTED, I'M NOT SURE
20 IF YOU CAN SEE IT, BUT BASICALLY AT ABOUT 71 AND
21 BELOW. AND THEN ABOVE WHAT WAS 51, WHICH IS
22 APPROXIMATELY 5419, THAT WAS THE RANGE THAT WAS
23 BETWEEN TIER III AND TIER I. AND EACH OF THOSE WAS
24 DISCUSSED. AND I THINK THE DISCUSSION WAS SUCH THAT
25 THE RESULT OF MANY WAS EITHER NOT TO RECOMMEND IT,

BARRISTERS' REPORTING SERVICE

1 IN SOME CASES TO PROVIDE A CONDITION UNDER WHICH THE
2 RECOMMENDATION WOULD BE MADE, AND THEN ONE OR TWO
3 MAYBE THAT WERE JUST OUTRIGHT RECOMMENDED.

4 CHAIRMAN THOMAS: DEAN HAWGOOD.

5 DR. HAWGOOD: JUST A CLARIFICATION ON THIS
6 ISSUE OF CONDITION. CONDITION THAT THEY NEED TO
7 MEET TO GET THE PLANNING GRANT, OR A CONDITION THAT
8 THEY NEED TO MEET TO SUBMIT THE FULL PROPOSAL?

9 DR. SAMBRANO: IF YOU APPROVE, IT MEANS
10 THAT THEY THEN GET THE CHOICE OF ACCEPTING THE
11 PLANNING AWARD AND MOVING FORWARD WITH AN
12 APPLICATION FOR THE RESEARCH AWARD. AND THEN AT THE
13 TIME OF THE RESEARCH AWARD APPLICATION, X CONDITION
14 NEEDS TO BE MET.

15 DR. PIZZO: I JUST WANT TO COME BACK TO
16 THE COMMENT THAT DR. STEWARD MADE BECAUSE I THINK
17 THAT HE WAS RAISING AN IMPORTANT ISSUE, WHICH IS NOT
18 SIMPLY RESTRICTED TO THIS PROPOSAL, BUT TO OTHERS,
19 WHICH IS NOW THAT WE HAVE A PORTFOLIO, SO TO SPEAK,
20 OF DIFFERENT EXPERIMENTS UNDER WAY, WILL WE BEGIN
21 SAYING THAT THERE'S REDUNDANCY AND, THEREFORE, WE
22 SHOULDN'T GO FORWARD? AND MY VIEW ABOUT THAT IS,
23 AND IT COMES BACK TO A COMMENT THE CHAIR MADE
24 EARLIER, IS THAT WE SHOULDN'T NECESSARILY PRECLUDE
25 THINGS BECAUSE OF THAT.

BARRISTERS' REPORTING SERVICE

1 ON THE OTHER HAND, WE SHOULD BE MINDFUL OF
2 OVERINVESTMENT IN ANY AREA AND SHOULD, THEREFORE,
3 HAVE KIND OF A LITMUS TEST OF IS THERE SOMETHING
4 UNIQUE IN THIS NEW PROPOSAL THAT MAY BE USING A
5 SIMILAR METHODOLOGY. IF IT'S VERY SIMILAR TO OTHERS
6 AND WE CAN WAIT, I THINK THEN IT DOESN'T, AT LEAST
7 FROM A HYPOTHETICAL POINT OF VIEW, TO ME AT LEAST,
8 SUGGEST ADDITIONAL INVESTMENT. BUT I WOULDN'T MAKE
9 THIS A POLICY THAT BECAUSE THERE'S A PORTFOLIO, WE
10 SHOULD DO THAT. I THINK THAT'S THE POINT YOU WERE
11 RAISING.

12 DR. STEWARD: YEAH. ACTUALLY IF YOU DON'T
13 MIND, JUST TO AMPLIFY ON IT BECAUSE I DO THINK THAT
14 THERE'S SORT OF TWO KEY POLICY THINGS. ONE IS
15 EXACTLY THAT, THE PORTFOLIO ISSUE. AND THE OTHER
16 WAS THE COMMENT THAT WE HAVE THIS ONGOING AND SO WE
17 SHOULD WAIT FOR THE RESULTS. AND I'M NOT SURE HOW I
18 FEEL ABOUT THAT. I JUST WANTED TO LAY IT OUT THERE
19 AS ONE OF THE THINGS THAT WAS DISCUSSED AND REALLY
20 PROBABLY ONE OF THE THINGS THAT ENDED UP HAVING THIS
21 GRANT RECOMMENDED FOR NONFUNDING. DO WE REALLY WANT
22 TO DO THAT GOING FORWARD?

23 I JUST WANTED TO RAISE IT AS THE ISSUES
24 THAT WERE THE KEY THINGS IN PLAY HERE.

25 DR. PIZZO: JUST BECAUSE I THINK THAT WAS

BARRISTERS' REPORTING SERVICE

1 PART OF THE DIALOGUE THAT YOU AND I ARE HAVING, I
2 HEARD THAT AS WELL. AND I UNDERSTAND THAT. AND I
3 THINK THAT PART OF THE ADMONITION IS THAT IF THERE
4 ARE A SET OF EXPERIMENTS UNDER WAY, AND THIS IS ONE
5 OF A SIMILAR KIND, THERE COULD BE A BENEFIT TO WAIT
6 AND SEE WHETHER THE OTHERS HAVE WORKED. HERE I
7 WOULD SAY IF THE EXPERIMENT'S SIMILAR IN PROFILE,
8 BUT YET BRINGING SOME OTHER UNIQUE ELEMENT TO IT IS
9 SOMETHING THAT WE SEE, THEN I WOULDN'T HAVE THE SAME
10 PROHIBITION. I JUST THINK WE NEED TO BE MINDFUL OF
11 NOT OVERINVESTING IN WHAT MIGHT BE A DEAD END IF
12 THERE'S A LOT OF THINGS THAT ARE GOING ON.

13 DR. POMEROY: I JUST WANTED TO KIND OF
14 AMPLIFY WHAT DUANE SAID, THAT IN THIS INSTANCE, IT'S
15 NOT THAT THIS WAS REMOVED FROM THE FUNDING RANGE,
16 BUT RATHER THAT IT FELL OUTSIDE THE FUNDING RANGE
17 AND THERE WAS NO COMPELLING REASON TO MOVE IT UP AS
18 OPPOSED TO SOME OF THE OTHERS AROUND IT. SO I THINK
19 IT'S VERY DIFFERENT TO REMOVE SOMETHING FROM THE
20 FUNDING RANGE BECAUSE OF PORTFOLIO CONSIDERATIONS
21 VERSUS THE CONCEPT OF MOVING SOME THINGS UP TO
22 COMPLETE A PORTFOLIO. I THINK THAT'S AN IMPORTANT
23 DISTINCTION, THAT THIS SCORE DID NOT FALL IN THE
24 ORIGINAL RECOMMENDED FOR FUNDING RANGE.

25 DR. STEWARD: ACTUALLY I'M NOT SURE ABOUT

BARRISTERS' REPORTING SERVICE

1 THAT, AND MAYBE WE SHOULD -- I SORT OF HESITATE TO
2 DO IT, BUT MAYBE WE SHOULD PUT THE SCORE UP AND SEE
3 WHERE IT DID FALL. I DON'T RECALL WHERE THE SCORE
4 WAS.

5 DR. SAMBRANO: IT DID FALL BELOW THE
6 INITIAL TIER I. SO THAT'S WHAT I WAS TRYING TO SHOW
7 IN THAT LINE UP THERE.

8 DR. STEWARD: YOU PUT THAT LINE UP THERE.

9 DR. LOVE: SO, JON, JUST IN RESPONSE TO
10 OS' SPECIFIC QUESTION. I DO THINK IT'S VERY NORMAL
11 IF WE WANT TO MANAGE OUR INVESTMENTS OF THE DOLLARS
12 IN A PORTFOLIO STRATEGY. IT IS VERY NORMAL, I
13 THINK, TO THINK ABOUT OVERLAPPING EXPERIMENTS. AND
14 WHEN EXPERIMENTS HAVE A GREAT DEAL OF OVERLAP, IT
15 DOES, IN FACT, MAKE SOME SENSE TO THINK ABOUT
16 WHETHER OR NOT SEEING THE INFORMATION FROM THE FIRST
17 EXPERIMENT COULD HELP YOU DECIDE IF YOU WANT TO DO
18 THE SECOND EXPERIMENT OR IF YOU WANT TO DO THE
19 SECOND EXPERIMENT IN A DIFFERENT WAY.

20 AND I GUESS THE ONLY OTHER THING TO POINT
21 OUT IS THAT, AT LEAST IN LOOKING AT THE MATERIALS,
22 THERE WAS AT LEAST ANOTHER MAJOR CONCERN RAISED,
23 THAT I ASSUME IS IN THE PUBLIC MATERIALS, ABOUT THE
24 TEAM INVOLVED AS WELL. SO I THINK THERE WERE TWO
25 ISSUES, BUT I'M CERTAINLY VERY SUPPORTIVE AT LEAST

BARRISTERS' REPORTING SERVICE

1 OF LOOKING AT NOT INVESTING IN THE EXACT SAME REPEAT
2 EXPERIMENTS CERTAINLY BEFORE WE GET THE RESULTS FROM
3 THE FIRST.

4 CHAIRMAN THOMAS: I WOULD ADD TO THAT THAT
5 IT SOUNDS LIKE \$3 BILLION IS A LOT OF MONEY, BUT
6 THERE'S TREMENDOUS AMOUNT OF RESEARCH TO BE FUNDED,
7 AND IT IS A LIMITED RESOURCE, AND WE HAVE TO BE
8 JUDICIOUS ABOUT HOW WE SPEND IT.

9 DR. FEIGAL: WELL, I ALSO WANTED TO REMIND
10 YOU. THE PLANNING AWARD, ALTHOUGH 3 BILLION, A
11 HUNDRED THOUSAND EACH MAY SOUND SMALL. AS DR.
12 THOMAS SAYS, IT'S IMPORTANT THAT WE SPEND IT WISELY.
13 NOT TO IMPLY WE WOULD NOT. BUT WE'RE ALSO TALKING
14 ABOUT THIS IS THE ENTREE INTO \$20 MILLION AWARDS,
15 AND THIS IS JUST THE FIRST PIECE. SO THEY WILL HAVE
16 ENTREE IF YOU FUND THIS OR MAKE THAT DECISION FOR
17 THAT MUCH LARGER PURSE. SO I JUST WANT YOU TO THINK
18 ABOUT THAT IN CONTEXT.

19 CHAIRMAN THOMAS: OTHER COMMENTS FROM
20 MEMBERS OF THE BOARD ABOUT ANY OF THE EITHER
21 RECOMMENDED OR NOT RECOMMENDED PROJECTS? HEARING
22 NONE, THEN I THINK WE ARE SET TO MOVE TO CLOSED
23 SESSION ON A COUPLE OF TOPICS. I ASK MR. HARRISON
24 TO ADMONISH US ON THOSE TOPICS, PLEASE.

25 MR. HARRISON: THE BOARD WILL CONVENE IN

BARRISTERS' REPORTING SERVICE

1 CLOSED SESSION TO DISCUSS CONFIDENTIAL INTELLECTUAL
2 PROPERTY OR PROPRIETARY INFORMATION RELATING TO THE
3 DISEASE TEAM THERAPY DEVELOPMENT AWARDS APPLICATIONS
4 PURSUANT TO HEALTH AND SAFETY CODE SECTION
5 125290.30(F)(3)(B) AND (C) AND ALSO TO DISCUSS
6 PERSONNEL PURSUANT TO HEALTH AND SAFETY CODE SECTION
7 125290.30(F)(3)(D).

8 CHAIRMAN THOMAS: THANK YOU. FROM A
9 PRACTICAL STANDPOINT, COULD SOMEBODY DESCRIBE
10 EXACTLY WHERE CLOSED SESSION IS?

11 MS. KING: RIGHT NEXT DOOR.

12 CHAIRMAN THOMAS: AND AM I CORRECT THE
13 MEMBERS OF THE BOARD WILL GRAB LUNCH AND TAKE INTO
14 CLOSED SESSION?

15 MS. KING: YES, THAT IS CORRECT.

16 CHAIRMAN THOMAS: THANK YOU. SO MEMBERS
17 OF THE PUBLIC, WE ARE TEMPORARILY OUT FOR CLOSED
18 SESSION. THANK YOU.

19 (THE BOARD THEN WENT INTO CLOSED
20 SESSION, NOT REPORTED NOR HEREIN TRANSCRIBED. THE
21 FOLLOWING WAS THEN HEARD IN OPEN SESSION:)

22 CHAIRMAN THOMAS: SO WE ARE BACK FROM
23 ADJOURNMENT FROM CLOSED SESSION. IF I COULD HAVE
24 EVERYBODY TAKE THEIR SEAT, PLEASE. MR. HARRISON, DO
25 YOU WANT TO REPORT ON ANYTHING TO BE REPORTED OUT OF

BARRISTERS' REPORTING SERVICE

1 CLOSED SESSION?

2 MR. HARRISON: I'D LIKE TO REPORT THAT
3 THERE IS NOTHING TO REPORT OUT OF CLOSED SESSION.

4 CHAIRMAN THOMAS: OKAY. WELL, HAVING HAD
5 THE EXTRAORDINARY PETITION WITH DISCUSSION IN CLOSED
6 SESSION, ARE THERE ANY MEMBERS OF THE BOARD WHICH
7 WOULD LIKE TO MAKE A MOTION WITH RESPECT TO THAT
8 EXTRAORDINARY PETITION? HEARING NONE, WE WILL FILE
9 THAT. THANK YOU FOR THE PRESENTATION OF THE
10 EXTRAORDINARY PETITION. AND IT'S TIME TO MOVE ON TO
11 OUR NEXT AGENDA TOPIC.

12 DO ANY MEMBERS OF THE BOARD WISH TO MAKE A
13 MOTION TO ELEVATE ANY OF THE TIER III PLANNING
14 AWARDS UP TO TIER I? HEARING NO SUCH MOTION, DO I
15 HEAR A MOTION TO AWARD THE 19 PLANNING AWARDS
16 IDENTIFIED IN THE REPORT PRESENTED?

17 DR. LOVE: MR. CHAIRMAN, I MOVE THAT WE
18 APPROVE THE GRANTS IN TIER I.

19 MR. TORRES: SECOND.

20 CHAIRMAN THOMAS: MR. HARRISON, CONFLICTS
21 PLEASE.

22 MR. HARRISON: JUST AS A REMINDER,
23 PARTICULARLY FOR THOSE BOARD MEMBERS APPEARING FOR
24 THEIR FIRST TIME, MELISSA WILL CONDUCT A ROLL CALL
25 VOTE. WHEN YOUR NAME IS CALLED, IF YOU HAVE

BARRISTERS' REPORTING SERVICE

1 APPLICATIONS IDENTIFIED ON THE LIST IN FRONT OF YOU
2 WITHIN THE GROUP THAT ARE IN TIER I, YOU SHOULD VOTE
3 EITHER YES OR NO ON THE MOTION EXCEPT AS TO THOSE
4 APPLICATIONS IN WHICH YOU HAVE A CONFLICT.

5 CHAIRMAN THOMAS: IS THERE ANY PUBLIC
6 COMMENT ON THE TIER I AWARDS?

7 MS. KING: WE DO HAVE ONE.

8 CHAIRMAN THOMAS: YES. THANK YOU. WE
9 HAVE TWO MINUTES PER COMMENT.

10 MS. ROBERSON: THANK YOU SO MUCH. THANK
11 YOU SO MUCH TO CHAIR THOMAS AND DR. TROUNSON AND TO
12 THE ICOC BOARD. WE HAD DR. -- WE ARE HERE
13 ADVOCATING, THE HUNTINGTON'S COMMUNITY IS HERE
14 ADVOCATING FOR DR. JAN NOLTA, HER GRANT FROM UC
15 DAVIS FOR HUNTINGTON'S. SO I WANT TO THANK YOU ALL
16 FOR YOUR HARD WORK.

17 THIS IS MY DAUGHTER, SHERRY. SHE IS IN
18 THE ANNUAL REPORT, CIRM'S ANNUAL REPORT. AND SHE'S
19 AT RISK FOR HUNTINGTON'S DISEASE ALONG WITH THREE OF
20 MY OTHER CHILDREN AND NOW I HAVE GRANDCHILDREN. MY
21 HUSBAND, HIS BROTHER, HIS MOTHER, HIS GRANDFATHER,
22 AND NOW HIS SISTER HAD HUNTINGTON'S DISEASE. AND WE
23 HAVE 17 MEMBERS IN OUR FAMILY AT RISK FOR
24 HUNTINGTON'S DISEASE.

25 WE HAVE NO TREATMENTS FOR HUNTINGTON'S

BARRISTERS' REPORTING SERVICE

1 DISEASE AND NO HOPE FOR A CURE OTHER THAN STEM CELL
2 RESEARCH. SO WE'RE GRATEFUL FOR ALL THE WORK THAT
3 YOU'RE DOING HERE AND HAVE BIG HOPE.

4 I WANT TO SAY THAT AFTER THIS MEETING
5 TODAY, I'LL GO ON MY COMPUTER AND SEND OUT A MASS
6 E-MAIL TO PEOPLE IN THE COUNTRY WHO ARE WATCHING AND
7 WAITING TO SEE WHAT HAPPENED HERE TODAY. 30,000
8 PEOPLE IN THE U.S. ARE AFFECTED WITH HUNTINGTON'S,
9 AND 150,000 PEOPLE AT MINIMUM ARE AT RISK FOR
10 HUNTINGTON'S DISEASE.

11 SO, AGAIN, BACK TO SHERRY. SHE JUST GOT
12 ENGAGED AND SHE IS HOPING FOR A LONG AND HAPPY LIFE.
13 AND KNOWING HER, SHE MAKES THE MOST OF EVERY
14 SITUATION. MY OTHER KIDS ARE LIKE THAT TOO. BUT
15 SHE'S AT RISK FOR HUNTINGTON'S. SO MY HUSBAND WAS
16 DIAGNOSED AT 39, DIED AT 51 AT HOME. HE WAS IN A
17 HOSPITAL BED FOR THREE YEARS, AND I WAS ABLE TO TAKE
18 CARE OF HIM BECAUSE I'M A NURSE. BUT MOST PEOPLE
19 AREN'T THAT FORTUNATE, AND THEY DIE IN A NURSING
20 HOME.

21 SO ANYWAY, THIS IS A BIG HOPE FOR US, AND
22 WE HOPE THAT DR. NOLTA WILL GET HER DISEASE TEAM
23 GRANT. OUR HD COMMUNITY IS ORGANIZED, ENTHUSIASTIC,
24 AND HOPEFUL. AND WE'RE HERE AT ANY TIME TO ADVOCATE
25 FOR CIRM OR FOR ANY RESEARCHER OR PHYSICIANS.

BARRISTERS' REPORTING SERVICE

1 AND I WANT TO SAY ONE THING. I GAVE A
2 TALK IN NOVEMBER OF 2009 IN BALTIMORE, AND AT THE
3 MEETING, IT WAS ON HUNTINGTON'S, WAS DR. CELIA
4 WHITTEN FROM THE FDA, AND SHE'S ON THE COMMITTEE FOR
5 CBER. WHEN I GOT HOME FROM THAT MEETING, I HAD A
6 URGENT PHONE CALL AND E-MAIL SAYING THAT I WAS
7 NOMINATED BY DR. WHITTEN FOR THE FDA.

8 SO IN MAY OF 2011, JUST A FEW WEEKS AGO, I
9 WAS OFFICIALLY APPOINTED TO THE FDA AS THE FIRST
10 VOTING, THAT'S KIND OF A BIG DEAL, FIRST VOTING
11 PATIENT REPRESENTATIVE FOR HUNTINGTON'S SO I CAN
12 VOTE ON ANY DRUG, DEVICE, OR A BIOLOGIC FOR
13 HUNTINGTON'S.

14 (APPLAUSE.)

15 MS. ROBERSON: SO I'M VERY PROUD OF THAT
16 AND EAGER TO TRY TO MAKE A DIFFERENCE. AND TO ALL
17 OF YOU HERE, THANK YOU SO MUCH. I KNOW YOU WORK
18 REALLY HARD AND THAT YOU CARE ABOUT PEOPLE LIKE MY
19 FAMILY WHO'S SUFFERING WITH HUNTINGTON'S DISEASE.
20 THANK YOU.

21 (APPLAUSE.)

22 MR. KRULL: JUST REAL QUICK. WE WANTED TO
23 SAY THANK YOU ALSO. I THINK WE'VE SPOKE TO YOU
24 BEFORE. OUR DAUGHTER EMILY WHO IS ADOPTED HAD
25 JUVENILE HUNTINGTON'S DISEASE. SHE PASSED AWAY WHEN

BARRISTERS' REPORTING SERVICE

1 SHE WAS 21. BEFORE THAT SHE WAS DIAGNOSED WHEN SHE
2 WAS IN HIGH SCHOOL. SHE LOVED BASKETBALL, SOCCER,
3 FISHING, CAMPING, READING, JUST EVERYTHING KIDS DO,
4 AND THEN STARTED GOING DOWNHILL. WE WERE UNAWARE OF
5 WHAT IT WAS AT THE TIME. FIRST TIME -- WE DIDN'T
6 KNOW WHAT HUNTINGTON'S WAS. BUT IT WAS -- WE KEPT
7 GOING. WE DID EVERYTHING WE COULD. WE ENJOYED LIFE
8 WITH HER, TOOK HER EVERYWHERE. WHATEVER SHE WANTED
9 TO DO WE DID IT. WE ENJOYED LIFE. AND WE KEPT
10 GOING BECAUSE OF THE HOPE WE HAD, AND A LOT OF THAT
11 WE GOT FROM YOU GUYS, SEEING WHAT YOU ARE DOING.
12 WHAT YOU ARE DOING IS IMPORTANT AND WE REALLY
13 APPRECIATE IT.

14 MS. KRULL: WE NEVER TREATED HER LIKE SHE
15 HAD A DISEASE. WE LIVED LIFE TO THE FULLEST BECAUSE
16 IT'S ALL WE CAN DO.

17 MR. KRULL: THANK YOU. WE APPRECIATE IT.

18 MS. KRULL: THANK YOU.

19 (APPLAUSE.)

20 CHAIRMAN THOMAS: THANK YOU VERY MUCH FOR
21 YOUR COMMENTS. AS WE'VE SAID, WE'RE DOING
22 EVERYTHING WE POSSIBLY CAN TO HELP FIND A CURE FOR
23 THAT AND ALL THE OTHER HORRIBLE DISEASES OUT THERE.
24 SO THANK YOU VERY MUCH FOR COMING TO SHARE YOUR
25 STORY.

BARRISTERS' REPORTING SERVICE

1 DEAN POMEROY.

2 DR. POMEROY: I THINK WE'VE JUST HEARD
3 FROM MEMBERS OF THE HUNTINGTON'S COMMUNITY, AND I
4 WOULD LIKE TO JUST SAY HOW EFFECTIVE AND HOW
5 IMPACTFUL THEY ARE AS MEMBERS OF OUR TEAM IN
6 FIGHTING THESE DISEASES. AND JUDY'S DAUGHTER
7 ACTUALLY WORKS IN THE LABORATORY TO FIND THE STEM
8 CELL ANSWERS TO THIS. AND I THINK THAT IT'S SORT OF
9 THE EPITOME OF A PARTNERSHIP BETWEEN ACADEMIA AND
10 RESEARCHERS AND THE PATIENT ADVOCATES. AND SO I
11 WANT TO THANK THE WHOLE HUNTINGTON'S COMMUNITY FOR
12 WORKING ON THIS WITH US.

13 CHAIRMAN THOMAS: THANK YOU. IS THERE ANY
14 FURTHER DISCUSSION ON THE MOTION AMONGST BOARD
15 MEMBERS?

16 WOULD LIKE TO NOTE THAT WITH RESPECT TO
17 THE MOTION, AS WE HEARD IN PREVIOUS DISCUSSION, FIVE
18 OF THE PROPOSED AWARDS DO HAVE CONDITIONS THAT NEED
19 TO BE MET IN ORDER FOR THEM TO BE ABLE TO PROCEED TO
20 THE ACTUAL APPLICATION PROCESS FOR FULL AWARD.

21 HAVING NO FURTHER DISCUSSION, MELISSA,
22 PLEASE TAKE A ROLL CALL VOTE.

23 MS. KING: I THINK JAMES ALREADY WENT OVER
24 THIS, BUT YOUR RESPONSE TO THIS, TO ME CALLING YOUR
25 NAME DURING THIS ROLL CALL, SHOULD BE WHATEVER YOUR

BARRISTERS' REPORTING SERVICE

1 VOTE IS, YES OR NO, WITH THE EXCEPTION OF THE
2 APPLICATIONS WITH WHICH YOU HAVE A CONFLICT OR
3 SOMETHING ALONG THOSE LINES. I LIKE THE VARIATION,
4 SO DON'T COPY ME.

5 MS. KING: GARY FIRESTEIN.

6 DR. FIRESTEIN: YES, WITH THE EXCEPTION OF
7 THOSE APPLICATIONS FOR WHICH I HAVE A POTENTIAL
8 CONFLICT.

9 MS. KING: SUSAN BRYANT.

10 DR. BRYANT: YES, EXCEPT FOR THOSE WITH
11 WHICH I HAVE A CONFLICT.

12 MS. KING: MARCY FEIT.

13 MS. FEIT: YES, EXCEPT FOR THOSE WITH
14 WHICH I HAVE A CONFLICT.

15 MS. KING: LEEZA GIBBONS.

16 MS. GIBBONS: YES.

17 MS. KING: MICHAEL GOLDBERG.

18 MR. GOLDBERG: YES, EXCEPT FOR THOSE WITH
19 WHICH I HAVE A CONFLICT.

20 MS. KING: SAM HAWGOOD.

21 DR. HAWGOOD: YES, EXCEPT FOR THOSE WITH
22 WHICH I HAVE A CONFLICT.

23 MS. KING: STEPHEN JUELSGAARD.

24 DR. JUELSGAARD: YES.

25 MS. KING: SHERRY LANSING.

BARRISTERS' REPORTING SERVICE

1 MS. LANSING: YES, EXCEPT FOR THOSE WITH
2 WHICH I HAVE A CONFLICT.

3 MS. KING: TED LOVE.

4 DR. LOVE: YES.

5 MS. KING: BERTRAM LUBIN.

6 DR. LUBIN: YES.

7 MS. KING: LEON FINE.

8 DR. FINE: YES, EXCEPT FOR THOSE WITH
9 WHICH I HAVE A CONFLICT.

10 MS. KING: PHIL PIZZO. CLAIRE POMEROY.

11 DR. POMEROY: YES, EXCEPT FOR THOSE WITH
12 WHICH I HAVE A CONFLICT.

13 MS. KING: FRANCISCO PRIETO.

14 DR. PRIETO: YES, EXCEPT FOR THOSE WITH
15 WHICH I HAVE A CONFLICT.

16 MS. KING: ELIZABETH FINI.

17 DR. FINI: YES, EXCEPT FOR THOSE WITH
18 WHICH I HAVE A CONFLICT.

19 MS. KING: ROBERT QUINT.

20 DR. QUINT: YES, AND I HAVE NO CONFLICTS.

21 MS. KING: DUANE ROTH.

22 MR. ROTH: YES, EXCEPT FOR THOSE WITH
23 WHICH I HAVE A CONFLICT.

24 MS. KING: JOAN SAMUELSON.

25 MS. SAMUELSON: YES.

BARRISTERS' REPORTING SERVICE

1 MS. KING: JEFF SHEEHY.

2 MR. SHEEHY: YES, EXCEPT FOR THOSE WITH
3 WHICH I HAVE A CONFLICT.

4 MS. KING: JON THOMAS.

5 CHAIRMAN THOMAS: YES.

6 MS. KING: OSWALD STEWARD.

7 DR. STEWARD: YES, EXCEPT FOR THOSE WITH
8 WHICH I HAVE A CONFLICT.

9 MS. KING: ART TORRES.

10 MR. TORRES: AYE.

11 MS. KING: KRISTINA VUORI.

12 DR. VUORI: YES, EXCEPT FOR THOSE WITH
13 WHICH I HAVE A CONFLICT.

14 MS. KING: JAMES ECONOMOU.

15 DR. ECONOMOU: YES, EXCEPT FOR THOSE WITH
16 WHICH I HAVE A CONFLICT.

17 MS. KING: THANK YOU. FOR THE RECORD THAT
18 MOTION CARRIES.

19 CHAIRMAN THOMAS: THANK YOU VERY MUCH. DO
20 I HAVE A MOTION THAT WE APPROVE NOT TO FUND THOSE
21 PROJECTS LISTED IN TIER III?

22 DR. LOVE: SO MOVED, THAT WE NOT FUND THE
23 GRANTS IN TIER III.

24 CHAIRMAN THOMAS: DO I HEAR A SECOND?

25 DR. JUELSGAARD: SECOND.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: IS THERE ANY BOARD
2 DISCUSSION? ANY PUBLIC COMMENT? HEARING NONE,
3 MELISSA, PLEASE CALL THE ROLL.

4 MS. KING: SAME REQUIREMENTS FOR YOUR
5 RESPONSE, PLEASE.

6 DR. FIRESTEIN: I'M CONFUSED NOW. IF I
7 SAY YES, DOES THAT MEAN NO?

8 MS. KING: THAT'S CORRECT. IF YOU SAY YES
9 TO THE MOTION --

10 DR. FIRESTEIN: YES, I APPROVE THE MOTION
11 WITH THE EXCEPTION OF THOSE WITH WHICH I HAVE A
12 CONFLICT.

13 MS. KING: GARY FIRESTEIN.

14 DR. FIRESTEIN: YES, WITH THE EXCEPTION OF
15 THOSE APPLICATIONS FOR WHICH I HAVE A POTENTIAL
16 CONFLICT.

17 MS. KING: SUSAN BRYANT.

18 DR. BRYANT: YES, EXCEPT FOR THOSE WITH
19 WHICH I HAVE A CONFLICT.

20 MS. KING: MARCY FEIT.

21 MS. FEIT: YES, EXCEPT FOR THOSE WITH
22 WHICH I HAVE A CONFLICT.

23 MS. KING: LEEZA GIBBONS.

24 MS. GIBBONS: YES.

25 MS. KING: MICHAEL GOLDBERG.

BARRISTERS' REPORTING SERVICE

1 MR. GOLDBERG: YES, EXCEPT FOR THOSE WITH
2 WHICH I HAVE A CONFLICT.

3 MS. KING: SAM HAWGOOD.

4 DR. HAWGOOD: YES, EXCEPT FOR THOSE WITH
5 WHICH I HAVE A CONFLICT.

6 MS. KING: STEPHEN JUELSGAARD.

7 DR. JUELSGAARD: YES.

8 MS. KING: SHERRY LANSING.

9 MS. LANSING: YES, EXCEPT FOR THOSE WITH
10 WHICH I HAVE A CONFLICT.

11 MS. KING: TED LOVE.

12 DR. LOVE: YES.

13 MS. KING: BERTRAM LUBIN.

14 DR. LUBIN: YES.

15 MS. KING: LEON FINE.

16 DR. FINE: YES, EXCEPT FOR THOSE WITH
17 WHICH I HAVE A CONFLICT.

18 MS. KING: CLAIRE POMEROY.

19 DR. POMEROY: YES, EXCEPT FOR THOSE WITH
20 WHICH I HAVE A CONFLICT.

21 MS. KING: FRANCISCO PRIETO.

22 DR. PRIETO: YES, EXCEPT FOR THOSE WITH
23 WHICH I HAVE A CONFLICT.

24 MS. KING: ELIZABETH FINI.

25 DR. FINI: YES, EXCEPT FOR THOSE WITH

BARRISTERS' REPORTING SERVICE

1 WHICH I HAVE A CONFLICT.

2 MS. KING: ROBERT QUINT.

3 DR. QUINT: YES. I HAVE NO CONFLICTS.

4 MS. KING: DUANE ROTH.

5 MR. ROTH: YES, EXCEPT FOR THOSE WITH
6 WHICH I HAVE A CONFLICT.

7 MS. KING: JOAN SAMUELSON.

8 MS. SAMUELSON: YES.

9 MS. KING: JEFF SHEEHY.

10 MR. SHEEHY: YES, EXCEPT FOR THOSE WITH
11 WHICH I HAVE A CONFLICT.

12 MS. KING: JON THOMAS.

13 CHAIRMAN THOMAS: YES.

14 MS. KING: OSWALD STEWARD.

15 DR. STEWARD: YES, EXCEPT FOR THOSE WITH
16 WHICH I HAVE A CONFLICT.

17 MS. KING: ART TORRES.

18 MR. TORRES: AYE.

19 MS. KING: KRISTINA VUORI.

20 DR. VUORI: YES, EXCEPT FOR THOSE WITH
21 WHICH I HAVE A CONFLICT.

22 MS. KING: JAMES ECONOMOU.

23 DR. ECONOMOU: YES, EXCEPT FOR THOSE WITH
24 WHICH I HAVE A CONFLICT.

25 MS. KING: THANK YOU. FOR THE RECORD THAT

BARRISTERS' REPORTING SERVICE

1 MOTION CARRIES.

2 CHAIRMAN THOMAS: THANK YOU VERY MUCH.
3 WE'RE GOING TO JUST DISPENSE WITH A TWO-SECOND ITEM,
4 AND WE'RE GOING TO TAKE ONE ITEM OUT OF ORDER.
5 WE'RE GOING TO ITEM 9, WHICH IS THE MINUTES OF THE
6 PREVIOUS MEETING.

7 MS. LANSING: SO MOVED.

8 MR. TORRES: SECOND.

9 CHAIRMAN THOMAS: IT'S BEEN MOVED AND
10 SECONDED. ANY DISCUSSION? MOVED TO APPROVE. ALL
11 THOSE IN FAVOR PLEASE SAY AYE. OPPOSED? MOTION
12 CARRIES.

13 NOW, WE HAVE A VERY SPECIAL AGENDA ITEM,
14 WHICH IS ITEM 15, WHICH DUE TO THE FACT WE ARE
15 HAVING SHERRY PROMINENTLY FEATURED IN THIS ITEM, AND
16 SHE'S GOING TO HAVE TO LEAVE, WE ARE GOING TO NOW
17 PROCEED TO A RESOLUTION AND FURTHER COMMENT
18 EXTOLLING THE EXCEPTIONAL CONTRIBUTIONS AND VIRTUE
19 OF MELISSA.

20 SO, SHERRY, IF YOU WOULD LIKE TO TAKE THE
21 FLOOR. AND WHEN SHERRY IS FINISHED, I HAVE AN
22 ADDITIONAL LITTLE ITEM THAT I WOULD LIKE TO CONVEY
23 AS WELL.

24 MS. LANSING: MELISSA, THIS IS A
25 BITTERSWEET THING FOR ME TO DO, AND I THINK I SPEAK

BARRISTERS' REPORTING SERVICE

1 FOR ALL OF US IN THE BOARD. WE HAVE WORKED WITH
2 YOU, SOME OF US, FOR CLOSE TO SEVEN YEARS. AND AS I
3 SPEAK FOR ALL THE MEMBERS OF THE BOARD, I FIND THAT
4 WORDS ARE REALLY TRULY INADEQUATE TO EXPRESS OUR
5 EXTREME GRATITUDE FOR EVERYTHING THAT YOU'VE DONE
6 FOR US AND FOR THE MISSION OF STEM CELL RESEARCH.

7 YOU HAVE BEEN SUCH AN INCREDIBLE SOURCE
8 FOR THIS BOARD. FIRST OF ALL, YOU'VE ORGANIZED US
9 IN EVERY POSSIBLE WAY, WHETHER IT'S JUST GETTING US
10 THE MATERIALS, WHETHER IT'S ORGANIZING WHERE WE'RE
11 GOING TO HAVE LUNCH, WHETHER IT'S ORGANIZING WHETHER
12 THE ROOM IS TOO HOT OR TOO COLD. FROM EVERYTHING
13 THAT WAS MAJOR TO MINOR, YOU HAVE BEEN A SOURCE OF
14 ORGANIZATION.

15 BUT FAR MORE IMPORTANT TO THAT, I THINK I
16 SPEAK FOR ALL OF US WHEN I SAY YOU HAVE BEEN AN
17 INCREDIBLE SOURCE OF KNOWLEDGE. I CALL YOU
18 CONSTANTLY. AND WHEN I THINK HOW MANY TIMES I CALL
19 YOU AND ASK YOU TO EXPLAIN THINGS FOR ME, AND WHEN I
20 DOUBLE IT BY THE NUMBER OF TIMES ALL OF THE BOARD
21 MEMBERS DO, I DON'T KNOW HOW YOU RETAIN THE
22 INCREDIBLE KNOWLEDGE THAT YOU HAVE. BUT I ALSO
23 DON'T KNOW HOW YOU RETAIN THE INCREDIBLE CALMNESS OF
24 YOUR DEMEANOR. YOU ARE ALWAYS CALM NO MATTER WHAT'S
25 GOING ON, NO MATTER WHAT CRISIS WE'RE FACING, AND

BARRISTERS' REPORTING SERVICE

1 YOU'RE ALSO ALWAYS CHEERFUL. YOU HAVE A SMILE AND A
2 WAY ABOUT YOU THAT CALMS ALL OF US AND MAKES US FEEL
3 BETTER AND REMINDS US OF WHY WE'RE ALL DOING WHAT
4 WE'RE DOING.

5 IN MANY WAYS YOU'RE THE CONSCIENCE OF THIS
6 ORGANIZATION. IN MANY WAYS YOU'RE THE SOUL OF THIS
7 ORGANIZATION. AND THE REASON THAT YOU'RE ABLE TO DO
8 THIS, MELISSA, IS BECAUSE YOU CARE SO MUCH. WHEN I
9 THINK ABOUT WHEN WE ALL STARTED FROM THE VERY
10 BEGINNING, I THINK ABOUT HOW DEDICATED YOU ARE AND
11 HOW MUCH YOU CARE FOR OUR MISSION AND FOR EVERY
12 PATIENT THAT HAS COME FORWARD TO ALL OF US DURING
13 THESE TIMES AND FOR ALL OF THE PATIENT ADVOCATES HOW
14 MUCH YOU CARE FOR US AND FOR ALL THE SCIENTISTS AND
15 ALL OF THE STAFF AND ALL OF THE ADMINISTRATION.

16 I SIMPLY CANNOT IMAGINE CIRM WITHOUT YOU,
17 MELISSA. BUT I WOULD BE VERY SELFISH, AND I'D LIKE
18 TO BE VERY SELFISH AND SAY PLEASE DON'T LEAVE, BUT I
19 WOULD BE VERY SELFISH IF I DIDN'T SAY TO YOU THAT I
20 WISH YOU BEST OF LUCK IN YOUR NEW VENTURE AT THIS
21 WONDERFUL INSTITUTION THAT DR. PIZZO SO REMINDED ME
22 OF. I KNOW THAT YOU WILL SUCCEED IN ANYTHING THAT
23 YOU SET YOUR MIND TO. BUT I ALWAYS WANT YOU TO KNOW
24 THAT YOU WILL BE IN THE HEART OF EVERY SINGLE ONE OF
25 US. AND WHENEVER WE THINK ABOUT WHAT WE'RE GOING TO

BARRISTERS' REPORTING SERVICE

1 DO NEXT, I'M ALWAYS GOING TO SAY WHAT WOULD MELISSA
2 DO. SO IT IS IN THAT SPIRIT THAT I THANK YOU ON
3 BEHALF OF ALL OF US FOR EVERYTHING THAT YOU'VE DONE
4 FOR US AND PRESENT YOU WITH THIS RESOLUTION OF
5 GRATITUDE, WHICH I'M NOT GOING TO READ BECAUSE IT'S
6 VERY LONG, BUT IT'S SIGNED BY ALL OF US, AND JUST
7 TELL YOU WE REALLY LOVE YOU AND MISS YOU ALREADY.

8 (STANDING OVATION.)

9 CHAIRMAN THOMAS: SO I HAVE A LITTLE
10 ADDITIONAL ITEM I WOULD LIKE TO GIVE TO MELISSA AS A
11 TOKEN OF EVERYBODY'S APPRECIATION. IT'S SORT OF
12 SPECIFIC TO ME, BUT HOPEFULLY IT WILL BE MEANINGFUL
13 TO MELISSA.

14 SO AS YOU KNOW, I'M FROM LOS ANGELES. I
15 AM A HUGE LOS ANGELES SPORTS FAN. IT'S ONE OF
16 THE -- IT'S TWO OF THE GREAT IRONIES OF ASSUMING
17 THIS POSITION THAT, NO. 1, MY OFFICE WINDOW LOOKS
18 OUT ON AT&T PARK, AND I HAVE TO LOOK AT WILLIE MAYS
19 EVERY DAY. THAT'S BAD ENOUGH.

20 NO. 2, EVEN WORSE, I COME INTO THIS NEW
21 JOB AND THE PERSON OF EXTREME IMPORTANCE TO THE
22 BOARD IS A BOSTON CELTICS FAN. I CANNOT TELL YOU
23 HOW MUCH I HATE THE CELTICS, BUT I DIGRESS.

24 SO I WANTED TO GET SOMETHING FOR MELISSA
25 THAT HITS ON THIS THEME AS MUCH AS I DISLIKE IT, BUT

BARRISTERS' REPORTING SERVICE

1 I KNEW SHE WOULD LIKE IT. I WAS RECENTLY BACK WITH
2 MY 12-YEAR-OLD SON AT AN ALL STAR BASEBALL
3 TOURNAMENT IN COOPERSTOWN, NEW YORK. AND
4 COOPERSTOWN, FOR THOSE OF YOU WHO HAVEN'T BEEN, IS A
5 CHARMING LITTLE TOWN, THE MAIN STREET OF WHICH IS
6 ABOUT FOUR BLOCKS LONG, AND IT'S 100 PERCENT
7 MEMORABILIA. AND 99.9 PERCENT OF THAT IS BASEBALL.

8 ON THE OTHER HAND, THERE IS A POINT 1. SO
9 WHEN I WAS BACK THERE, I SAID I HAVE A COLLEAGUE
10 THAT IS ABOUT TO BE LEAVING TO GO TO BUSINESS SCHOOL
11 WHO IS A CELTICS FAN. DO YOU HAVE ANY GOOD,
12 UNUSUAL, AND UNIQUE CELTICS MEMORABILIA? WELL,
13 TURNS OUT THAT THIS PERSON DID.

14 A NUMBER OF YEARS AGO THE BASKETBALL HALL
15 OF FAME, WHICH IS IN SPRINGFIELD, MASS.,
16 COMMISSIONED AN ARTIST TO MAKE METALLIC BASKETBALL
17 CARDS OF DIFFERENT WORTHY PLAYERS AND PEOPLE WHO
18 PLAYED FOR THE CELTICS.

19 AND TO MELISSA I WOULD LIKE TO PRESENT A
20 BOOK. MELISSA, IF YOU WOULD STAND UP HERE, PLEASE.
21 WHICH FRONT PAGE OF WHICH SAYS METAL SPORTS CARDS,
22 CARDS FEATURING THE LEGENDARY HALL OF FAMERS OF THE
23 CELTICS. AND IF WE FLIP THROUGH HERE, WE SEE LARRY
24 BIRD, DAVE COWANS FOR THOSE OF YOU CELTICS FANS FROM
25 THE '70S, JOHN HAVLICEK.

BARRISTERS' REPORTING SERVICE

1 MS. KING: EVERYONE KNOWS HAVLICEK.

2 CHAIRMAN THOMAS: TOM HEINSOHN, THE MOST
3 BIASED SPORTS ANALYST EVER. KEVIN "CLOTHESLINE"
4 MCHALE, AND MY LEAST ALL-TIME FAVORITE ARNOLD "RED"
5 AUERBACH.

6 WE HAVE THESE CARDS TOGETHER WITH THE
7 CERTIFICATION OF AUTHENTICITY AS A COMMISSIONED
8 METAL SPORTS CARD FROM THE NBA HALL OF FAME. AND IT
9 IS WITH GREAT PLEASURE THAT I PRESENT THESE TO A
10 TRUE CELTICS FAN WITH BEST WISHES GOING FORWARD.
11 HERE YOU GO, MELISSA.

12 MS. KING: THANK YOU SO MUCH.

13 (APPLAUSE.)

14 MR. TORRES: MR. CHAIRMAN, THE DELEGATE
15 FROM THIS CORNER MOVES TO ADOPT THE RESOLUTION.

16 MS. LANSING: SECOND.

17 CHAIRMAN THOMAS: WHO WOULD LIKE TO
18 COMMENT ON THE RESOLUTION? I THINK WE ALL DID WITH
19 OUR STANDING OVATION. I MOVE THE QUESTION. ALL
20 THOSE RESOUNDINGLY IN FAVOR SAY -- OH, PUBLIC
21 COMMENT. SORRY. SORRY, DON. HOW COULD I DO THAT?

22 MR. REED: SOME THINGS MUST BE THOROUGHLY
23 DISCUSSED.

24 WHENEVER I HEAR THE PLEDGE OF ALLEGIANCE
25 THE REST OF MY LIFE, I'LL THINK OF IT AS AN

BARRISTERS' REPORTING SERVICE

1 INCLUSION. IT SAYS STAND IF YOU ARE ABLE. MY SON
2 COMES IN HERE IN HIS WHEELCHAIR, AND HE ALWAYS FEELS
3 MELISSA IS SPEAKING DIRECTLY TO HIM. AND SHE SPEAKS
4 TO EVERY ADVOCATE. SHE IS THE ADVOCATE'S ADVOCATE.
5 WE WILL NEVER SAY GOODBYE. THANK YOU.

6 (APPLAUSE.)

7 CHAIRMAN THOMAS: ANY FURTHER PUBLIC
8 COMMENT? HEARING NONE, ALL THOSE IN FAVOR PLEASE
9 SAY AYE. OPPOSED? UNANIMOUSLY CARRIED.

10 (APPLAUSE.)

11 CHAIRMAN THOMAS: ON TO ITEM NO. 10,
12 CONSIDERATION OF FINAL ADOPTION OF AMENDMENTS TO
13 REGULATION 10080 ENTITLED "ACCEPTABLE RESEARCH
14 MATERIALS." DR. LOMAX.

15 DR. LOMAX: THANK YOU, MR. CHAIRMAN,
16 MEMBERS OF THE BOARD. AS YOU MAY BE AWARE, THE CIRM
17 REGULATIONS REQUIRE HUMAN EMBRYONIC STEM CELL LINES
18 USED BY OUR RESEARCHERS TO MEET STANDARDS FOR THEIR
19 ETHICAL DERIVATION. TO FACILITATE ACCESS TO
20 ETHICALLY DERIVED STEM CELL LINES, OUR REGULATIONS
21 ENUMERATE SPECIFIC REGULATORY FRAMEWORKS THAT
22 CONFORM TO OUR STANDARDS. SO THE FRAMEWORKS REQUIRE
23 EVERYTHING IN THE DERIVATION PROCESS THAT WE WOULD
24 REQUIRE IN OUR OWN STANDARDS.

25 ONE SUCH FRAMEWORK IS THE AUSTRALIAN

BARRISTERS' REPORTING SERVICE

1 RESEARCH GUIDELINES. IT'S AN ACT WITHIN THE
2 AUSTRALIAN LAW WHICH WAS REVIEWED BY THE STANDARDS
3 WORKING GROUP.

4 ON THE 8TH OF DECEMBER LAST YEAR, THE
5 STANDARDS WORKING GROUP BROUGHT FORWARD FOR YOUR
6 CONSIDERATION A RECOMMENDATION TO INCLUDE THOSE
7 STANDARDS AS PART OF OUR REGULATIONS. YOU APPROVED
8 THEM THAT TIME, AND WE ENTERED THE RULEMAKING
9 PROCESS. WE RECEIVED NO PUBLIC COMMENTS ON THE
10 PROPOSED REGULATION. WE'RE COMING BACK TO YOU AT
11 THIS TIME TO RECOMMEND FINAL APPROVAL FOR THAT
12 REGULATION.

13 MR. SHEEHY, DID YOU HAVE A QUESTION?

14 MR. SHEEHY: NO. OUR ADVOCATES ARE
15 LEAVING. I'M JUST WAVING BYE.

16 DR. LOMAX: SO THE MOTION BEFORE YOU WOULD
17 BE TO APPROVE THE FINAL LANGUAGE, WHICH IS INCLUDED
18 IN YOUR PACKET, WHICH WOULD ALLOW OUR REGULATIONS TO
19 BE FINALIZED TO INCLUDE THE AUSTRALIAN FRAMEWORK AS
20 ACCEPTABLY DERIVED IN OUR REGULATORY STANDARDS.

21 DR. PRIETO: DOES THIS REQUIRE A MOTION?
22 I'LL SO MOVE.

23 DR. LOVE: SECOND.

24 CHAIRMAN THOMAS: IT'S BEEN MOVED AND
25 SECONDED. IS THERE ANY BOARD DISCUSSION ON THIS

BARRISTERS' REPORTING SERVICE

1 TOPIC? ANY PUBLIC COMMENT ON THIS TOPIC? HEARING
2 NONE, MELISSA, DOES THIS JUST REQUIRE AN AYE VOTE?

3 ALL THOSE IN FAVOR PLEASE SAY AYE.

4 OPPOSED? MOTION CARRIES.

5 DR. LOMAX: THANK YOU, MR. CHAIRMAN.

6 CHAIRMAN THOMAS: THANK YOU, DR. LOMAX.

7 AGENDA ITEM NO. 11, CONSIDERATION OF
8 PROCESS FOR OBTAINING SUPPLEMENTAL INFORMATION FROM
9 APPLICANTS FOR DISEASE TEAM AND CLINICAL TRIAL
10 AWARDS. DR. FEIGAL.

11 DR. FEIGAL: SO ONCE AGAIN, YOU'VE SEEN
12 THIS CHEVRON BEFORE. IT'S JUST SHOWING YOU THAT OUR
13 DISEASE TEAM AND TARGETED CLINICAL DEVELOPMENT
14 AWARDS ARE CIRM'S KEY INITIATIVES TO MOVE RESEARCH
15 TOWARDS AND INTO THE CLINIC. RESEARCH, AS WE KNOW,
16 REQUIRES MULTIDISCIPLINARY EXPERTS FOR EXECUTION AND
17 MULTIDISCIPLINARY EXPERTS TO REVIEW.

18 SO WE WANTED TO ASK OURSELVES -- THE
19 SYSTEM IS WORKING. THE REVIEW PROCESS IS WORKING.
20 BUT HOW CAN WE IMPROVE UPON AN ALREADY STRONG
21 FOUNDATION OF REVIEW BY THE GRANTS WORKING GROUP AND
22 DECISIONS BY THE ICOC? AND SO WE WANTED TO ADDRESS
23 THE ISSUE IN REAL TIME OF CRITICAL QUESTIONS AND
24 ISSUES THAT COULD IMPACT ON REVIEW OF AN
25 APPLICATION, PARTICULARLY THE COMPLEXITIES OF AN

BARRISTERS' REPORTING SERVICE

1 APPLICATION THAT ARE INVOLVED WITH MOVING TOWARDS
2 AND INTO THE CLINIC.

3 AND WE ALSO WANTED TO DO THIS IN A WAY
4 THAT IT WOULD NOT CHANGE THE CURRENT ROLES OF
5 SCIENTIFIC PEER REVIEW AND PROGRAMMATIC DISCUSSION.
6 SO WE'RE PROPOSING A THREE-PRONG MODIFICATION IN THE
7 CURRENT PROCESS, TWO OF WHICH WE ALREADY HAVE AND
8 HAVE USED IN THE PAST ON AN INFREQUENT BASIS, AND
9 WE'D ACTUALLY LIKE TO FORMALIZE ALL THREE.

10 THE FIRST IS AT THE TIME OF RFA
11 SOLICITATION AND PRIOR TO APPLICATION RECEIPT. THE
12 SECOND MODIFICATION WILL OCCUR AT THE TIME AFTER
13 CIRM RECEIVES AN APPLICATION AND IT'S SENT TO
14 REVIEWERS. AND THE THIRD TIME WILL BE DURING THE
15 GRANT REVIEW GROUP REVIEW SESSION.

16 LET ME TELL YOU WHAT THOSE MODIFICATIONS
17 ARE. I WAS JUST POINTING OUT THE TIME POINTS AT
18 WHICH THEY WOULD OCCUR.

19 PRIOR TO APPLICATION RECEIPT, BUT AFTER
20 THE RFA IS PUBLIC, WE'RE SUGGESTING THAT CIRM HOLD A
21 QUESTION-AND-ANSWER SESSION WITH POTENTIAL
22 APPLICANTS, INCLUDING GOING OVER ISSUES ABOUT THE
23 PROCESS AND ANY OTHER QUESTIONS THE APPLICANTS MAY
24 HAVE. THE POINT IS THAT WE POST THINGS ON OUR
25 WEBSITE. WE USUALLY HAVE PEOPLE SIGN UP FOR

BARRISTERS' REPORTING SERVICE

1 NEWSLETTERS OR ANY TIME WE HAVE A NEW INITIATIVE.
2 THIS WOULD JUST INVOLVE BEING A LITTLE BIT MORE
3 AGGRESSIVE AND ASSERTIVE IN TERMS OF GOING OUT AND
4 ENTERTAINING QUESTIONS AND TRYING TO ADDRESS THEM
5 BEFORE THE APPLICANTS ACTUALLY EVEN START PUTTING
6 TOGETHER THEIR APPLICATION.

7 SO WE'RE SUGGESTING DOING THIS, AND DOING
8 A WEBINAR OR SOME SORT OF A PUBLIC SESSION, PROBABLY
9 A WEBINAR RATHER THAN A TELECON, IN WHICH WE'D
10 EXPLAIN IT. AND THEN FOR THOSE WHO AREN'T ABLE TO
11 ATTEND THAT, WE'D POST OUR FAQ'S ON THE WEBSITE.

12 THE SECOND MODIFICATION WOULD BE AFTER THE
13 APPLICATION HAS BEEN RECEIVED, BUT THE APPLICATION
14 IS BEING REVIEWED, IN THE PROCESS OF REVIEW BY THE
15 GRANTS REVIEW GROUP, AND IT WOULD BE BEFORE THE
16 ACTUAL SESSION. AT THIS POINT WE WANTED THE GRANTS
17 REVIEW GROUP TO DO THEIR INITIAL REVIEW AND SEND IN
18 ANY KEY QUESTIONS THAT THEY HAVE ABOUT THE
19 APPLICATION THAT THEY THINK THE APPLICANTS COULD
20 ADDRESS AND GET INFORMATION BACK TO THEM BEFORE THE
21 TIME OF THE ACTUAL SESSION. AND THIS WOULD BE
22 CRITICAL GAPS IN INFORMATION OR CRITICAL AMBIGUITIES
23 IN THE APPLICATION THAT AFFECTED THEIR ABILITY TO
24 REVIEW IT.

25 CIRM WOULD THEN SEND THESE KEY QUESTIONS

BARRISTERS' REPORTING SERVICE

1 PLUS ANY ADDITIONAL KEY QUESTIONS THE SCIENTIFIC
2 OFFICERS MIGHT HAVE TO THE APPLICANT AND GIVE THEM
3 AN OPPORTUNITY TO ADDRESS THEM. AND THEN THOSE KEY
4 QUESTIONS AND HOW THEY ADDRESS THEM WOULD THEN BE
5 CIRCULATED TO THE GRANTS REVIEW GROUP IN ADVANCE OF
6 THE ACTUAL SESSION.

7 THE THIRD MODIFICATION WOULD OCCUR DURING
8 THE ACTUAL GRANTS REVIEW GROUP SESSION. THIS IS THE
9 MODIFICATION THAT WE ACTUALLY HAVE NEVER
10 IMPLEMENTED. THIS IS WHERE THE GRANTS REVIEW GROUP
11 MAY HAVE PIVOTAL QUESTIONS THAT ARISE DURING THE
12 ACTUAL DISCUSSION AT THE SESSION. AND IT MAY BE
13 PIVOTAL QUESTIONS OF TWO TYPES. AND THESE WOULD BE
14 QUESTIONS THAT WOULD IMPACT ON THEIR SCORING AND ON
15 THEIR RECOMMENDATION.

16 ONE TYPE OF QUESTION MAY BE THE TYPE FOR
17 WHICH THERE COULD BE A CONCISE ANSWER AND WE DON'T
18 NEED TO SEE ADDITIONAL WRITTEN INFORMATION,
19 ADDITIONAL DATA. THE SECOND TYPE OF QUESTION COULD
20 BE THAT THAT REQUIRES A MORE COMPLEX EXPLANATION AND
21 WOULD REQUIRE THE SUBMISSION OF ADDITIONAL
22 SUPPLEMENTAL WRITTEN INFORMATION.

23 THE SCIENTIFIC REVIEW CHAIR OF THAT GRANTS
24 WORKING GROUP WOULD DECIDE DURING THAT SESSION
25 WHETHER PIVOTAL QUESTIONS SHOULD BE COMMUNICATED

BARRISTERS' REPORTING SERVICE

1 WITH APPLICANTS AND OF WHICH TYPE. CIRM THEN WOULD
2 HAVE IDENTIFIED BEFORE THAT ACTUAL SESSION THE
3 CONTACT INFORMATION, JUST THE LOGISTICAL
4 INFORMATION, SO THAT WE'D HAVE THE ABILITY TO
5 CONTACT THEM DURING THE SESSION IN WHICH WE MIGHT
6 WANT TO QUESTION THEM.

7 SO IF THOSE QUESTIONS DO ARISE AND THE
8 SCIENTIFIC REVIEW CHAIR DECIDES THAT THEY WANT TO
9 POSE THOSE QUESTIONS TO THE APPLICANT, CIRM WOULD
10 THEN PHONE THE APPLICANT DURING THE GRANTS REVIEW
11 GROUP SESSION, AND THERE WOULD BE A TELECON WITH THE
12 GWG IN WHICH THE QUESTIONS WOULD BE STATED TO THE
13 APPLICANT, AND THEY COULD DECIDE WHOMEVER ELSE ON
14 THEIR RESEARCH TEAM THEY WANTED TO BE INVOLVED,
15 WOULD RESPOND IN THE TELECON WITH THE GRANTS REVIEW
16 GROUP. THERE WOULD BE NO DIRECT INTERACTION BETWEEN
17 THE GRANTS REVIEW GROUP AND THE APPLICANT DURING THE
18 PROCESS.

19 NOW, WE REALIZE IN THE REAL WORLD IT MAY
20 NOT ALWAYS WORK THIS WAY, AND SO WE WANTED TO
21 ENTERTAIN A BACKUP OPTION, IF REAL-TIME TELECON WAS
22 NOT FEASIBLE, TO DO IT BY E-MAIL. SO THE GRANTS
23 REVIEW GROUP WOULD PROVIDE A CONDITIONAL FUNDING
24 RECOMMENDATION BASED UPON RECEIPT OF THE DESIRED
25 RESPONSE FROM THE APPLICANT, WHICH THEN SOME DEFINED

BARRISTERS' REPORTING SERVICE

1 IN RAPID TIME FRAME, THE E-MAIL RESPONSE WOULD THEN
2 BE PROVIDED TO THE GRANTS REVIEW GROUP, BUT IT WOULD
3 NOT REQUIRE FURTHER DISCUSSION. AND THIS QUERY TO
4 THE APPLICANT AND THEIR ANSWER WOULD BE PROVIDED TO
5 THE ICOC TO PROVIDE THEM WITH A BETTER UNDERSTANDING
6 WHEN IT CAME TIME FOR THEM TO MAKE A FINAL DECISION
7 ABOUT THAT APPLICATION.

8 WHAT ABOUT THE TYPE OF QUESTIONS THAT
9 WOULD REQUIRE THE SUBMISSION OF DATA? HERE THE
10 GRANTS REVIEW GROUP WOULD DEFER FURTHER
11 CONSIDERATION OF THE APPLICATION PENDING RECEIPT OF
12 WRITTEN RESPONSES. THE GRANTS REVIEW GROUP AND CIRM
13 WOULD HAVE TO WORK TOGETHER TO FORMULATE WHAT THOSE
14 PIVOTAL QUESTIONS WOULD LOOK LIKE, THE PERMISSIBLE
15 FORMAT OF ANSWERS. CIRM WOULD THEN SEND IT TO THE
16 APPLICANT. HERE THIS NEXT BULLET YOU'LL SEE IS A
17 SLIGHT CHANGE FROM THE WRITTEN DOCUMENT. WE'RE
18 SUGGESTING A MAXIMUM TWO WEEKS TO RESPOND, AND THEN
19 THIS WOULD BE CIRCULATED TO THE ENTIRE GRANTS REVIEW
20 GROUP.

21 WE WERE AFRAID -- IN THE ORIGINAL WE SAID
22 ONE MONTH, BUT THEN WE'RE RUNNING INTO PROBLEMS WITH
23 WHEN THE ICOC WOULD MEET, AND WE DIDN'T WANT TO
24 DELAY THE APPLICATION REVIEW PROCESS. SO WE THOUGHT
25 THESE SHOULD BE QUESTIONS WHERE THEY SHOULD HAVE THE

BARRISTERS' REPORTING SERVICE

1 DATA ALREADY DONE. IT'S NOT A RESEARCH EXPERIMENT
2 THAT THEY COULD THEN GO OUT AND DO. THEY SHOULD
3 HAVE THE DATA IN HAND. THEY JUST DIDN'T PRESENT IT.
4 AND SO THE APPLICANT, WE THOUGHT, HAVING TWO WEEKS
5 IS A REASONABLE AMOUNT OF TIME TO RESPOND.

6 THERE WOULD THEN BE A TELEPHONIC GRANTS
7 REVIEW GROUP SESSION NO LESS THAN ONE MONTH PRIOR TO
8 THE SCHEDULED ICOC. JUST IN CASE WE CAN'T GET THE
9 ENTIRE GWG BY TELECON, WE WOULD ALLOW A 15-MEMBER
10 QUORUM, WHICH WOULD INCLUDE THE INITIAL PRIMARY AND
11 SECONDARY PEER REVIEWERS, THE KEY SPECIALISTS, THE
12 SCIENTIFIC REVIEW CHAIR, THE GRANT REVIEW GROUP
13 PATIENT ADVOCATE CO-CHAIRS, AND IF ONE IS
14 REPRESENTED ON THE GRANTS REVIEW GROUP, THE PATIENT
15 ADVOCATE FOR THAT SPECIFIC DISEASE. THEN THE GRANTS
16 REVIEW GROUP WOULD MAKE THE RECOMMENDATION, AND THEN
17 THAT WOULD BE PRESENTED TO THE ICOC FOR FINAL
18 DECISIONS.

19 SO WE FEEL THESE THREE MODIFICATIONS, TWO
20 OF WHICH WE ALREADY CAN DO, THE THIRD OF WHICH WE
21 HAVE NOT YET PILOTED, IS THAT THIS IS PROACTIVE,
22 RAPID, AND COULD FACILITATE A ROBUST YET TIMELY
23 REVIEW OF THE AWARDS, THAT CIRM'S DISEASE TEAM AND
24 CLINICAL TRIAL AWARDS ARE CRITICAL TO CIRM'S MISSION
25 TO ADVANCE THERAPIES AND CURES, THAT IT WOULD BE

BARRISTERS' REPORTING SERVICE

1 FEASIBLE TO IMPLEMENT, PARTICULARLY THIS THIRD
2 MODIFICATION, IF THERE ARE A LIMITED NUMBER OF
3 APPLICATIONS IN WHICH PIVOTAL QUESTIONS ARISE.

4 THESE MODIFICATIONS IN THE PROCESS BEFORE
5 RECEIPT OF THE APPLICATION, AFTER RECEIPT DURING
6 REVIEW, AND THEN DURING THE GRANTS REVIEW GROUP
7 SESSION WOULD PRESERVE THE KEY ROLE OF SCIENTIFIC
8 PEER REVIEW, PROGRAMMATIC DISCUSSIONS, BUT OUR
9 INTENT IS THAT IT WOULD STRENGTHEN THE FOUNDATION
10 AND THE CERTAINTY IN WHICH RECOMMENDATIONS AND
11 DECISIONS ARE MADE.

12 AND THAT'S BASICALLY WHAT I WANTED TO
13 PRESENT TO THE BOARD TODAY.

14 CHAIRMAN THOMAS: COMMENTS? JOAN.

15 MS. SAMUELSON: I'VE GOT SOME BASIC
16 FACTUAL QUESTIONS BECAUSE IT SEEMS TO ME THIS IS A
17 SET OF MODIFICATIONS THAT AREN'T THE SAME AS THE SET
18 THAT WE REVIEWED, SOME GROUP OF PATIENT ADVOCATES ON
19 THE WORKING GROUP. I'M LOOKING AT JEFF BECAUSE I'M
20 TRYING TO BE REMINDED. AND ESSENTIALLY ALL OF US
21 HAD SIGNIFICANT CONCERNS WITH THAT VERSION. AND I
22 THOUGHT WE WERE GOING TO GET ANOTHER RESPONSE
23 DIRECTLY SO WE COULD CONTINUE COMMUNICATING ABOUT
24 THIS AND TRY TO BE QUICK ABOUT IT, BUT THIS IS
25 SOMETHING DIFFERENT, I THINK.

BARRISTERS' REPORTING SERVICE

1 DR. FEIGAL: I HAVEN'T CHANGED THIS SINCE
2 JUNE.

3 MR. SHEEHY: JOAN, I THINK THIS IS
4 CONSISTENT WITH WHAT WE WERE WORKING WITH.

5 MS. SAMUELSON: OKAY.

6 MR. SHEEHY: AND I THINK STAFF HAS DONE A
7 GREAT JOB HERE ACTUALLY.

8 MS. SAMUELSON: THEN I'M THINKING OF
9 SOMETHING ELSE.

10 MR. SHEEHY: I THINK THIS REALLY
11 ADDRESSES -- I THINK THIS CAME OUT. I DON'T WANT TO
12 SAY SHORTCOMING BECAUSE WE WORK VERY HARD IN PEER
13 REVIEW, BUT IT FACILITATES A MORE REAL-TIME ACCESS
14 TO IMPORTANT INFORMATION. I THINK THE ANALOGY THAT
15 OS HAD BROUGHT UP WAS THAT THEY USED TO DO SITE
16 VISITS AT THE NIH. RECOGNIZING THAT THAT'S NOT
17 FEASIBLE, THERE ARE QUESTIONS THAT COME UP THAT
18 COULD BE ANSWERED RELATIVELY EASILY. AND THIS JUST
19 GIVES US THE OPPORTUNITY TO DO THAT. SO I THINK DR.
20 FEIGAL HAS DONE A GREAT JOB OF PULLING THIS
21 TOGETHER. AND WE'VE HEARD THIS IN THE SCIENCE
22 SUBCOMMITTEE.

23 MS. SAMUELSON: I WAS THINKING OF THE ONE
24 THAT CHANGED PROGRAMMATIC REVIEW.

25 MR. ROTH: AND I CONCUR. I SAT THROUGH A

BARRISTERS' REPORTING SERVICE

1 NUMBER OF THESE DISCUSSIONS, AND I THINK IT'S A WELL
2 THOUGHT OUT PLAN. IT'S BASED ON OUR EXPERIENCE THAT
3 WE HAD, THINGS THAT DID NOT WORK AND WERE DIFFICULT
4 TO OBTAIN THE INFORMATION THAT WE NEEDED AT THE
5 TIME. THIS ADDRESSES THAT.

6 WITH THAT, I'D LIKE TO MAKE A MOTION THAT
7 WE APPROVE AS PRESENTED.

8 CHAIRMAN THOMAS: IS THERE A SECOND?

9 MS. SAMUELSON: SECOND.

10 CHAIRMAN THOMAS: SECONDED BY JOAN.
11 FURTHER DISCUSSION? DR. STEWARD.

12 DR. STEWARD: I'D JUST LIKE TO
13 CONGRATULATE STAFF AGAIN AS WELL BECAUSE I THINK
14 THIS IS JUST AN EXTRAORDINARY WAY TO REALLY GET IT
15 RIGHT. SO OFTEN WE HEAR, WELL, YOU DIDN'T SEE THAT,
16 YOU DIDN'T NOTICE THIS. AND THIS IS A PLACE WHERE
17 WE CAN REALLY BE SURE THAT WE'VE COVERED EVERY BASE
18 AND THAT WE DO THE REVIEW IN THE MOST DILIGENT AND
19 THOROUGH FASHION AND REALLY MAKE SURE THAT THINGS
20 ARE RIGHT AT THE END OF THE DAY. JUST, AGAIN, I
21 REALLY THINK IT'S A GREAT THING. SO THANK YOU.

22 DR. POMEROY: I THINK THIS IS AN EXAMPLE
23 OF AN INNOVATION THAT MAY BE OF GREAT INTEREST TO
24 OTHER REVIEW AGENCIES GOING FORWARD. AND SO I HOPE
25 THAT MEMBERS OF THE GRANTS WORKING GROUP ALONG WITH

BARRISTERS' REPORTING SERVICE

1 STAFF WOULD CONSIDER A REALLY FORMAL EVALUATION OF
2 THIS PROCESS THAT GETS WRITTEN UP IN THE ACADEMIC
3 LITERATURE BECAUSE I CAN SEE SOME OF THE PEOPLE WHO
4 SUBMIT GRANTS TO THE NIH AND THE NSF GOING I WISH WE
5 HAD THIS OPPORTUNITY WHEN WE WERE SUBMITTING THERE.
6 SO GETTING IT OUT INTO THE LITERATURE WOULD BE A
7 VERY HELPFUL ADDITIONAL STEP.

8 CHAIRMAN THOMAS: DR. ECONOMOU.

9 DR. ECONOMOU: I WOULD CONCUR. THERE ARE
10 A LOT OF MOVING PARTS. IT'S GOING TO CREATE MORE
11 WORK FOR THE STAFF, BUT I THINK THIS IS A VERY GOOD
12 PLAN TO ENSURE CONTINUAL PEER REVIEW OF THESE
13 APPLICATIONS THROUGH AN UNBIASED MECHANISM UP TO THE
14 POINT OF IT COMING TO THIS COMMITTEE. I'M LOOKING
15 FORWARD TO SEEING THE BY-PRODUCT OF THAT. THANK
16 YOU.

17 CHAIRMAN THOMAS: ANY FURTHER COMMENT?
18 PUBLIC COMMENT? HEARING NONE, VOICE VOTE, PLEASE.
19 ALL THOSE IN FAVOR PLEASE SAY AYE. OPPOSED? MOTION
20 CARRIES UNANIMOUSLY. THANK YOU, ELLEN.

21 NEXT ITEM, 12, CONSIDERATION OF THE
22 EXTENSION OF THE RESEARCH LEADERSHIP AWARD PROGRAM.
23 DR. YAFFE.

24 DR. YAFFE: CHAIRMAN THOMAS, MEMBERS OF
25 THE BOARD, I BRING FOR YOUR CONSIDERATION A REQUEST

BARRISTERS' REPORTING SERVICE

1 FOR AN EXTENSION OF THE APPLICATION PERIOD FOR THE
2 RESEARCH LEADERSHIP AWARDS. THIS IS ITEM NO. 12.

3 JUST TO REMIND YOU, THE RESEARCH
4 LEADERSHIP AWARDS HAVE AS THEIR GOALS TO FACILITATE
5 THE RECRUITMENT TO CALIFORNIA OF THE MOST PRODUCTIVE
6 AND PROMISING EARLY TO MIDCAREER SCIENTISTS IN STEM
7 CELL BIOLOGY AND REGENERATIVE MEDICINE AND TO
8 SUPPORT, ONCE THESE INDIVIDUALS HAVE BEEN RECRUITED
9 TO CALIFORNIA, TO SUPPORT THEIR ROBUST AND
10 INNOVATIVE RESEARCH PROGRAMS FOCUSED ON FUNDAMENTAL
11 STUDIES OF PLURIPOTENT AND PROGENITOR STEM CELL
12 BIOLOGY AND TRANSLATIONAL STUDIES LEADING TO
13 INNOVATIVE AND STEM CELL-BASED THERAPIES FOR DISEASE
14 AND INJURY.

15 IN AUGUST 2009 THIS BOARD APPROVED THE
16 CONCEPT AND COMMITTED \$44 MILLION TO FUND EIGHT
17 GRANTS TO BE AWARDED OVER A PERIOD OF TWO YEARS.
18 THESE AWARDS FEATURE SIX YEARS OF FUNDING TO SUPPORT
19 INVESTIGATOR SALARY, LAB OPERATIONS, LAB RELOCATION,
20 LABORATORY EQUIPMENT, AND APPROPRIATE INDIRECT AND
21 FACILITY COSTS WITH TOTAL FUNDS FOR EACH AWARD OF UP
22 TO \$5.5 MILLION.

23 THE APPLICATION PROCESS INVOLVES
24 SUBMISSION OF A JOINT APPLICATION, AN APPLICATION
25 FROM THE INSTITUTION AND FROM THE INDIVIDUAL, WITH

BARRISTERS' REPORTING SERVICE

1 APPLICATION REVIEW CYCLES EVERY THREE MONTHS.
2 APPLICATIONS ARE THEN REVIEWED BY THE GRANTS WORKING
3 GROUP, AND THEIR RECOMMENDATION IS BROUGHT TO THIS
4 COMMITTEE WITH FUNDING DECISIONS BY THE ICOC.

5 THUS FAR TWO GRANTS HAVE BEEN AWARDED TO
6 DATE. ONE TO ROBERT WECHSLER-REYA WHO WAS RECRUITED
7 TO SANFORD BURNHAM INSTITUTE AND A SECOND TO DR.
8 PETER COFFEY, WHO WAS RECENTLY RECRUITED TO UC SANTA
9 BARBARA.

10 BASED ON THE ORIGINAL TWO-YEAR AUTHORIZED
11 PERIOD FOR THIS PROGRAM, THE LAST SCHEDULED
12 APPLICATION DEADLINE IS NOVEMBER 30, 2011. HOWEVER,
13 RECRUITMENT OF OUTSTANDING SCIENTISTS, THE
14 SCIENTISTS THAT WE'RE LOOKING FOR IN THIS PROGRAM
15 WHO ARE GOING TO BE LEADERS, WHO ARE THE EMERGING
16 LEADERS IN STEM CELL BIOLOGY, IS A VERY CHALLENGING
17 AND LENGTHY PROCESS.

18 WE UNDERSTAND FROM COMMUNICATION WITH STEM
19 CELL LEADERS AT A NUMBER OF CALIFORNIA INSTITUTIONS
20 THAT RECRUITMENTS ARE UNDER WAY, THAT THEY'VE
21 IDENTIFIED CANDIDATES, AND THEY'RE NOW IN THIS PHASE
22 OF MATING DANCE AND NEGOTIATION TO TRY AND RECRUIT
23 THESE INDIVIDUALS, TO INDUCE THEM TO COME TO
24 CALIFORNIA, SET UP THEIR RESEARCH PROGRAMS, AND
25 EMBARK ON THIS GROUNDBREAKING CONTRIBUTION TO OUR

BARRISTERS' REPORTING SERVICE

1 EFFORTS HERE.

2 SO WE REQUEST TODAY THAT YOU APPROVE AN
3 EXTENSION OF THE PERIOD OF RECEIPT OF APPLICATIONS
4 FOR THE LEADERSHIP AWARDS PROGRAM FOR AN ADDITIONAL
5 18 MONTHS BEYOND THE INITIALLY SLATED TWO YEARS.
6 THIS WOULD EXTEND THE PROGRAM APPLICATION PERIOD
7 THROUGH JUNE OF 2013. AND I JUST WANTED TO NOTE
8 THAT NO ADDITIONAL FUNDS ARE REQUESTED.

9 MR. TORRES: SO MOVED.

10 DR. YAFFE: THANK YOU.

11 CHAIRMAN THOMAS: IT'S BEEN MOVED AND
12 SECONDED. IS THERE ANY FURTHER DISCUSSION?

13 MR. ROTH: SECOND.

14 DR. LOVE: OBVIOUSLY DR. YAFFE IS A VERY
15 IMPRESSIVE PRESENTER.

16 CHAIRMAN THOMAS: YES. HE GOT THE
17 PERIPATETIC SENATOR TORRES WHO NO LONGER WANTED TO
18 SIT NEAR TED OR I TO ACTUALLY MOVE BEFORE YOU HAD
19 EVEN FINISHED. THAT'S THE HEIGHT OF PERSUASION.

20 DR. YAFFE: I WAS PREPARED TO GO ON FOR A
21 FEW.

22 CHAIRMAN THOMAS: ANY FURTHER DISCUSSION?

23 MR. SHEEHY: JUST A QUICK QUESTION FOR
24 COUNSEL. THERE'S NO CONFLICT ISSUES HERE? ALL
25 MEMBERS ARE ELIGIBLE TO VOTE?

BARRISTERS' REPORTING SERVICE

1 MR. HARRISON: YES. THIS IS APPROVAL OF
2 THE STANDARD SIMILAR TO THE CONCEPT PLAN APPROVAL
3 ORIGINALLY.

4 MR. SHEEHY: OKAY.

5 MS. SAMUELSON: I HAVE A QUESTION. I
6 DON'T KNOW THAT YOU KNOW, BUT HOW MANY APPLICATIONS
7 HAVE WE HAD IN THIS FIRST AUTHORIZED TIME FRAME?
8 I'M NOT -- IT SEEMS LIKE WE HAVEN'T RECEIVED ANY IN
9 THE LAST FEW QUARTERS.

10 DR. YAFFE: THAT'S CORRECT. BUT WE'VE
11 BEEN TOLD THAT A NUMBER OF CANDIDATES ARE
12 PERCOLATING UP THROUGH THE SYSTEM IN TERMS OF THE
13 NEGOTIATIONS AND RECRUITMENT PROCESSES. AND LEADERS
14 FROM A NUMBER OF THE INSTITUTIONS AND UNIVERSITIES
15 HAVE TOLD US THAT THEY'RE GOING TO SUBMIT WITHIN THE
16 NEXT YEAR. THEY HAVE PARTICULARLY -- THIS REQUEST
17 ORIGINALLY CAME FROM STEM CELL LEADERS AT SEVERAL
18 DIFFERENT CALIFORNIA UNIVERSITIES, WHO SAID THEY
19 WILL HAVE CANDIDATES READY, BUT THEY DID WANT
20 TO -- WE ENCOURAGED THEM TO SUBMIT ONCE THE
21 CANDIDATE REALLY IS PRETTY LOCKED INTO COMING. AND
22 THIS IS A PROTRACTED PROCESS. ACADEMIC RECRUITMENT
23 IS CERTAINLY A CHALLENGING AND FORMIDABLE TASK.

24 MS. SAMUELSON: JUST ANOTHER QUICK
25 QUESTION. DR. COFFEY DID MOVE FROM GREAT BRITAIN TO

BARRISTERS' REPORTING SERVICE

1 SANTA BARBARA?

2 DR. YAFFE: WE RECEIVED A LETTER. I DON'T
3 KNOW, ALAN, IF YOU WANTED TO CONFIRM THAT.

4 DR. TROUNSON: HE'S CONFIRMED TO MOVE TO
5 UC SANTA BARBARA UNDER THE CONDITIONS THAT ARE
6 REQUIRED AT THAT UNIVERSITY. MEETS ALL THE
7 CONDITIONS FOR A FULL-TIME APPOINTMENT THERE. HE
8 WILL HAVE SOME ABILITY TO KEEP CONNECTED WITH HIS
9 WORK IN THE UK, BUT ALL WITHIN THE NORMAL STRUCTURE
10 OF THE UNIVERSITY ALLOWANCES.

11 DR. YAFFE: WE UNDERSTAND HE WILL BE ON
12 THE GROUND AT THE BENCH IN SANTA BARBARA BY NOVEMBER
13 1ST.

14 DR. FINE: THIS IS A TANGENTIAL QUESTION.
15 DO WE HAVE A DATABASE OF THE FLOW OF STEM CELL
16 RESEARCHERS INTO CALIFORNIA OVER THE LAST FIVE
17 YEARS?

18 DR. YAFFE: WE HAVE CONSIDERABLE
19 INFORMATION. I'M NOT SURE WHAT FORM IT'S IN
20 CURRENTLY. BUT WE KNOW THAT -- I'VE SEEN NUMBERS
21 LIKE 200 OR MORE STEM CELL RESEARCHERS WHO WE
22 PROBABLY COULD IDENTIFY BY NAME WHO HAVE MOVED TO
23 CALIFORNIA.

24 DR. FINE: HAS THERE BEEN ANY TREND? HAS
25 THERE BEEN ANY FALL-OFF IN THE LAST TWO OR THREE

BARRISTERS' REPORTING SERVICE

1 YEARS AS OTHER AREAS INCREASE THEIR VIABILITY?

2 DR. YAFFE: I'M NOT AWARE OF THAT.

3 DR. TROUNSON: THE LAST UPDATES WERE JUST
4 PRIOR TO THE EXTERNAL PANEL REVIEW IN 2010. AND
5 WHAT WE NEED IS TO BE IS ABLE TO GARNER THAT
6 INFORMATION ON AN ONGOING BASIS. SO WE INTEND TO DO
7 THAT. I DON'T THINK THE DYNAMICS OF THE DATA WOULD
8 TELL US WHETHER THERE'S BEEN FLUCTUATIONS UP AND
9 DOWN, BUT IT LOOKS LIKE FAIRLY CONTINUOUS. THERE
10 ARE A FEW PEOPLE WHO'VE ACTUALLY MOVED TO OTHER
11 PLACES, BUT THAT'S A VERY LOW, VERY, VERY LOW
12 PROPORTION OF THE TOTAL MOVEMENT.

13 CHAIRMAN THOMAS: ON THAT POINT, I THINK
14 IT'S ONE THAT SENATOR TORRES AND I HAVE BEEN TRYING
15 TO DRIVE HOME TO THE GOVERNOR'S OFFICE. AT A TIME
16 WHEN THE STATE IS EXPERIENCING BRAIN DRAIN IN A
17 NUMBER OF OTHER AREAS, THAT THE FACT THAT WE ARE
18 PULLING IN NOT JUST FUTURE EMPLOYEES WORKING IN THE
19 STATE OF CALIFORNIA, BUT HIGHLY QUALIFIED, SKILLED
20 PROFESSIONALS IN THE STEM CELL ARENA IS SOMETHING
21 THAT IS A GREAT RESULT FOR US AND ONE THAT WE'RE
22 ACTIVELY TRUMPETING UP THERE AS THEY ARE FOCUSING
23 MORE AND MORE ON JOBS CREATION AND THAT SORT OF
24 THING.

25 MS. SAMUELSON: QUESTION, MR. CHAIRMAN.

BARRISTERS' REPORTING SERVICE

1 WOULD IT BE APPROPRIATE TO ASK FOR A BRIEF REVIEW OF
2 THIS, OF THAT FLOW INTO CALIFORNIA AT OUR NEXT
3 MEETING?

4 CHAIRMAN THOMAS: DR. YAFFE.

5 MS. SAMUELSON: SORRY TO GIVE YOU MORE
6 WORK.

7 DR. TROUNSON: THE LAST TIME WE TRIED TO
8 GET THAT INFORMATION, JOAN, WE HAD TO GO
9 SPECIFICALLY TO THE HEADS OF THE STEM CELL UNITS.
10 THIS IS NOT INFORMATION THAT'S EASILY OBTAINED IF
11 YOU WANT TO REALLY GET A GOOD SOUNDING OF IT. SO WE
12 HAVE A MEETING WITH THEM IN A COUPLE OF WEEKS TIME,
13 AND WE'RE GOING TO ASK FOR THEM TO PROVIDE US WITH
14 THAT INFORMATION.

15 IT DOES TAKE QUITE A BIT OF FOLLOW-UP TO
16 GET IT BECAUSE THEY DON'T HAVE IT SIMPLY IN THEIR
17 DATA OR ON THEIR OFFICE DESK, BUT THEY'RE VERY
18 COMPLIANT ABOUT PROVIDING IT FOR US. AND WE WILL
19 ASK FOR IT IN THE NEXT MEETING, WHICH IS A COUPLE OF
20 WEEKS AWAY. AND HOPEFULLY, IF I THINK IT'S USEFUL,
21 THEN WE'LL BRING IT FORWARD. IF NOT, I'LL WAIT TILL
22 IT IS USEFUL SO THAT WE'VE GOT SOME ACCURACY ABOUT
23 IT.

24 MS. SAMUELSON: I HAVE INTEREST NOW JUST
25 SPEAKING FOR MYSELF.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: ANY FURTHER COMMENT BY
2 MEMBERS OF THE BOARD? PUBLIC COMMENT? HEARING
3 NONE, PLEASE EXPRESS AN AYE VOTE IF YOU ARE IN
4 FAVOR. ALL THOSE IN FAVOR SAY AYE. OPPOSED?
5 MOTION CARRIED UNANIMOUSLY. THANK YOU, DR. YAFFE.

6 DR. YAFFE: THANK YOU.

7 CHAIRMAN THOMAS: NEXT, ITEM NO. 13,
8 CONSIDERATION OF JOB DESCRIPTION OF CHIEF FINANCIAL
9 OFFICER. MR. GOLDBERG.

10 MR. GOLDBERG: THANK YOU, CHAIRMAN THOMAS.
11 ON BEHALF OF CHAIRMAN THOMAS AND PRESIDENT TROUNSON,
12 TED LOVE AND I WERE ASKED TO REVIEW THE DUTY
13 STATEMENT, OTHERWISE KNOWN AS A JOB DESCRIPTION, FOR
14 THE CHIEF FINANCIAL OFFICER, WHICH IS UNDER TAB 13.

15 THAT WAS A DESCRIPTION THAT WAS DEVELOPED
16 BY CHAIRMAN KLEIN AND PRESIDENT TROUNSON OVER THE
17 COURSE OF THE LAST YEAR AND A HALF OR TWO YEARS.
18 AND IT WAS THE ASSIGNMENT OF TED AND I TO CONFER,
19 BASED ON HIS AND MY INDUSTRY EXPERIENCE, AND DEVELOP
20 A CONSENSUS DOCUMENT THAT WAS BOTH ACCEPTABLE TO DR.
21 TROUNSON AND CHAIRMAN THOMAS. WE FOUND THAT TO BE A
22 VERY, VERY STRAIGHTFORWARD AND EASY PROCESS BECAUSE
23 MOST OF THE WORK HAD BEEN DONE BEFORE WE GOT
24 INVOLVED.

25 GENERALLY I'M ASKED TO PARTICIPATE IN MORE

BARRISTERS' REPORTING SERVICE

1 PROBLEMATIC SITUATIONS. SO THIS WAS, THANKS TO BOTH
2 DR. TROUNSON AND CHAIRMAN THOMAS, A VERY, VERY
3 GRATIFYING EXPERIENCE.

4 THE MAJOR CONTRIBUTION THAT DR. LOVE AND I
5 MADE WAS THAT IN AN EFFORT TO RECRUIT THE VERY BEST
6 PERSON WE COULD FOR THE POSITION, WE WOULD HAVE TO
7 HAVE VERY, VERY CLEAR REPORTING. THE POSITION IS
8 REALLY A COLLABORATIVE ONE THAT COORDINATES HEAVILY
9 BETWEEN THE PRESIDENT'S OFFICE AND THE CHAIR'S
10 OFFICE, BUT ULTIMATELY IT HAS TO BE A DOTTED LINE
11 RESPONSIBILITY TO ONE AND A SOLID LINE
12 RESPONSIBILITY TO ANOTHER.

13 AND GIVEN THE DUTIES LAID OUT IN THE JOB
14 DESCRIPTION, AND DR. LOVE AND MY ASSESSMENT OF THE
15 KIND OF CANDIDATES AVAILABLE TO FULFILL SUCH A
16 POSITION, OUR RECOMMENDATION, WHICH WAS ADOPTED BY
17 DR. TROUNSON AND CHAIRMAN THOMAS, WAS TO HAVE THE
18 POSITION REPORTING ON A SOLID LINE BASIS TO THE
19 CHAIR AND A DOTTED LINE BASIS TO THE PRESIDENT WITH
20 A CLEAR UNDERSTANDING THAT IT WOULD BE A POSITION
21 THAT HAD TO INTERACT EFFECTIVELY WITH BOTH THE
22 CHAIRMAN'S OFFICE AS WELL AS THE PRESIDENT'S OFFICE
23 AND THEIR RESPECTIVE STAFFS TO FULFILL ITS
24 RESPONSIBILITIES.

25 SO WITH THAT, THE DOCUMENT YOU HAVE BEFORE

BARRISTERS' REPORTING SERVICE

1 YOU REPRESENTS OUR COLLECTIVE BEST THINKING, THE
2 FOUR OF US, AND WE WOULD ASK FOR A MOTION TO APPROVE
3 IT SO THAT WE CAN COMMENCE A RECRUITMENT.

4 MR. TORRES: SO MOVED.

5 MS. LANSING: SECOND.

6 CHAIRMAN THOMAS: IT'S BEEN MOVED AND
7 SECONDED. IS THERE ANY DISCUSSION BY MEMBERS OF THE
8 BOARD?

9 I WOULD LIKE TO THANK MICHAEL AND TED FOR
10 THEIR HELP ON THIS. THIS HAS BEEN A MATTER THAT, AS
11 WAS DULY NOTED, HAS BEEN LINGERING FOR QUITE SOME
12 TIME. THIS ORGANIZATION DESERVES AND NEEDS A CHIEF
13 FINANCIAL OFFICER. ADOPTION OF THIS JOB DESCRIPTION
14 WILL ALLOW FOR IMMEDIATE POSTING AND TO GET THAT
15 SHOW ON THE ROAD. THANK YOU TO THE TWO OF YOU.
16 THANK YOU TO ALAN. I THINK WE'VE GOT A GOOD FINAL
17 PRODUCT HERE.

18 AND IS THERE ANY PUBLIC COMMENT ON THE
19 SUBJECT? HEARING NONE, THIS IS ANOTHER AYE OR NAY
20 MOTION. ALL THOSE IN FAVOR PLEASE SAY AYE.
21 OPPOSED? MOTION CARRIES UNANIMOUSLY.

22 OUR NEXT ITEM IS AGENDA ITEM 14,
23 CONSIDERATION OF THE REPORT FROM THE INTELLECTUAL
24 PROPERTY SUBCOMMITTEE. I WANT TO SAY THAT OUR NEW
25 CHAIR, STEPHEN JUELGAARD, CONDUCTED A SUPERB

BARRISTERS' REPORTING SERVICE

1 INAUGURAL MEETING OF THAT SUBCOMMITTEE IN WHICH WE
2 DEALT WITH GREAT MATTERS OF SUBSTANCE WITH REAL
3 SERIOUSNESS AND PURPOSE. AND SO WITH THAT, LET ME
4 TURN IT OVER FOR A REPORT.

5 DR. JUELSGAARD: THANK YOU, CHAIR THOMAS.
6 IF THAT WERE ONLY TRUE.

7 SO JUST TO PARAPHRASE KIND OF WHAT
8 HAPPENED LAST EVENING. AND FIRST OF ALL, I WANT TO
9 THANK ALL OF THE SUBCOMMITTEE MEMBERS WHO WERE
10 PRESENT LAST EVENING. I KNOW THAT WAS AN EXTRA
11 BURDEN FOR THOSE OF YOU TO SHOW UP THE EVENING
12 BEFORE THE BOARD MEETING, ESPECIALLY THOSE OF YOU
13 WHO ARE FROM OUT OF TOWN. SO I VERY MUCH
14 APPRECIATED YOUR ABILITY TO MAKE IT TO THE MEETING.
15 IT WAS IMPORTANT FOR ME AT LEAST AS CHAIRMAN OF THE
16 SUBCOMMITTEE TO BE ABLE TO HAVE THAT FIRST MEETING
17 BE IN PERSON WITH AS MANY OF YOU AS POSSIBLE SO THAT
18 WE COULD SORT OF SEE HOW THIS COMMITTEE WILL WORK IN
19 THAT SORT OF A SETTING GOING FORWARD.

20 THE COMMITTEE DIDN'T TAKE ANY ACTION. WE
21 CONSIDERED OR DISCUSSED THREE ITEMS, TWO OF WHICH I
22 EXPECT THAT WE'LL BRING BACK TO THE OCTOBER MEETING
23 BECAUSE WE HAD SOME GREAT DISCUSSION AROUND THOSE
24 TWO ITEMS, BUT WE NEEDED TO DO A LITTLE BIT FURTHER
25 WORK.

BARRISTERS' REPORTING SERVICE

1 SO THE FIRST WAS REALLY AROUND THE MISSION
2 OF THE SUBCOMMITTEE. AND AS YOU MAY RECALL AT THE
3 LAST BOARD MEETING IN THE CREATION OF THE
4 SUBCOMMITTEE, THERE WAS A MISSION STATEMENT THAT WAS
5 INCLUDED IN THE RESOLUTION. IT WAS A FIVE-PART
6 MISSION STATEMENT, AND WE TOOK A LOOK AT THAT AND
7 DECIDED THAT WE SORT OF DOUBLE-COVERED SOME ITEMS,
8 SO SOME ITEMS COULD BE SUBSUMED INTO WHAT WAS THE
9 MORE GENERAL ITEMS.

10 WE'RE GOING TO REVISIT THE MISSION
11 STATEMENT AND REVAMP IT A BIT TO DO THAT. IN
12 ADDITION TO THIS, SOMETHING THAT CHAIRMAN THOMAS
13 MENTIONED EARLIER THIS MORNING, TO EXPAND THE SCOPE
14 OF THE SUBCOMMITTEE TO INCLUDE INTERACTIONS WITH
15 INDUSTRY BECAUSE I THINK WE'RE COMING TO A POINT IN
16 THE DEVELOPMENT OF PROJECTS THAT ARE WITHIN THE
17 PURVIEW OF THIS ORGANIZATION WHERE INDUSTRY CAN AND
18 SHOULD PLAY A MORE ACTIVE ROLE GOING FORWARD.

19 AND WITH THAT, THEN, WE DISCUSSED HAVING
20 DUANE ROTH SERVE AS CHAIR OF THOSE ASPECTS OF THE
21 SUBCOMMITTEE WHILE I WILL SERVE AS CHAIR OF THE
22 INTELLECTUAL PROPERTY ASPECTS, AND WE WOULD EACH
23 SERVE AS VICE CHAIR RESPECTIVELY FOR THOSE TWO
24 ALTERNATE POSITIONS. BUT WE WANT TO DO A LITTLE BIT
25 MORE WORK IN TERMS OF THE LANGUAGE OF THE MISSION

BARRISTERS' REPORTING SERVICE

1 AND AGREE ON IT WITHIN THE SUBCOMMITTEE BEFORE WE
2 COME BACK TO THIS GROUP TO ASK FOR YOUR APPROVAL FOR
3 THAT AS OUR MISSION STATEMENT.

4 THE SECOND ITEM THAT WE DISCUSSED WAS THE
5 STRATEGIC PARTNERSHIP FUND ASPECT OF THE OPPORTUNITY
6 FUND. SO YOU MAY RECALL THAT THIS BOARD HAS
7 APPROVED \$30 MILLION IN FUNDING FOR SOMETHING CALLED
8 THE OPPORTUNITY FUND WHICH HAD SEVERAL DIFFERENT
9 ASPECTS TO IT. AND THE ONE ASPECT THAT WE WERE
10 CHARGED WITH REALLY LOOKING AT WAS AN OPPORTUNITY
11 FUND, SOMETHING THAT WOULD, AGAIN, SPEAK TO INDUSTRY
12 WITH THE POTENTIAL FOR INDUCING THEM TO BECOME MORE
13 INVOLVED PARTICULARLY IN THE CLINICAL RESEARCH STAGE
14 OF PROJECTS.

15 BUT AS WE DISCUSSED THE OPPORTUNITY FUND,
16 WHICH ELONA BAUM PRESENTED TO US, WE THOUGHT THAT
17 THERE WERE SOME CHANGES TO WHAT WE SAW THERE THAT
18 MIGHT BENEFIT THE PROGRAM. AND WE WANTED TO LOOK A
19 LITTLE FURTHER AT THAT AND SORT OF NAIL THAT DOWN
20 BEFORE WE BROUGHT THAT BACK TO THE BOARD FOR
21 CONSIDERATION, WHICH WE EXPECT TO HAPPEN IN OCTOBER.
22 YOU ALSO NEED TO HAVE A REVIEW BY THE SCIENCE
23 SUBCOMMITTEE OF THE PROPOSAL. SO THAT'S AN
24 INTERVENING ITEM AS WELL.

25 THEN LASTLY, WE SPOKE ABOUT -- TALKED

BARRISTERS' REPORTING SERVICE

1 BRIEFLY ABOUT THE POTENTIAL FOR AN ASSISTANCE
2 PROGRAM FOR INSTITUTIONS THAT ARE INVOLVED IN
3 CIRM-FUNDED RESEARCH WITH RESPECT TO THE DEVELOPMENT
4 OF THE PROTECTION OF THE INTELLECTUAL PROPERTY THAT
5 THEY DEVELOP. SO THERE'S SORT OF THE TWO DIFFERENT
6 ASPECTS OF THAT. ONE IS SIMPLY FINANCIAL SUPPORT
7 BECAUSE WE UNDERSTAND THAT THERE MAY BE GREATER
8 FINANCIAL NEED AT THIS POINT IN TECHNOLOGY TRANSFER
9 OFFICES, AND WE MIGHT BE ABLE TO PROVIDE SOME
10 ASSISTANCE WITH RESPECT TO THE PROJECTS THAT THIS
11 BODY IS INVOLVED WITH.

12 AND THERE'S ALSO PERHAPS INSTANCES IN
13 WHICH INSTITUTIONS MIGHT ALSO BENEFIT FROM HELP IN
14 TERMS OF RESOURCES OTHER THAN FINANCIAL RESOURCES.
15 SO IN CONNECTION WITH THAT, THE STAFF IS WORKING ON
16 SETTING UP A MEETING WITH TECHNOLOGY TRANSFER
17 REPRESENTATIVES FROM A NUMBER, AT LEAST SIX
18 DIFFERENT INSTITUTIONS REPRESENTING THE BROAD CROSS
19 SECTION OF ORGANIZATIONS THAT THIS BODY FUNDS TO
20 REALLY TALK TO THEM ABOUT THEIR NEEDS AND WHAT THEY
21 MIGHT FIND USEFUL, ACCEPTABLE, ETC. TO SEE IF THERE
22 IS SOMETHING THAT WE COULD OR SHOULD DO THAT WE
23 COULD THEN, AGAIN, BRING BACK TO THIS BODY FOR
24 CONSIDERATION.

25 SO THOSE WERE THE THREE TOPICS. I THOUGHT

BARRISTERS' REPORTING SERVICE

1 IT WAS A VERY USEFUL DISCUSSION, AND I THOUGHT THERE
2 WAS A LOT OF GREAT INPUT FROM EVERYBODY INVOLVED.

3 CHAIRMAN THOMAS: THANK YOU, STEVE. ANY
4 COMMENTS BY MEMBERS OF THE BOARD? MR. GOLDBERG.

5 MR. GOLDBERG: YES. I JUST WANTED TO SAY
6 THAT I WAS EXTREMELY ENCOURAGED BY STEVE'S
7 LEADERSHIP OF THE COMMITTEE, THE AGENDA, THE
8 DISCUSSION. AND I LOOK FORWARD TO WORKING ON THE
9 NEW COMMITTEE WITH HE AND DUANE UNDER THEIR
10 LEADERSHIP.

11 CHAIRMAN THOMAS: I FULLY ECHO THAT
12 SENTIMENT.

13 ANY OTHER COMMENT? ANY PUBLIC COMMENT?
14 OKAY. BELIEVE IT OR NOT --

15 DR. POMEROY: BEFORE YOU SAY --

16 MS. LANSING: HERE'S TO EFFICIENCY.

17 MR. TORRES: HERE. HERE. HERE.

18 (APPLAUSE.)

19 DR. POMEROY: I JUST WANTED TO
20 CONGRATULATE AND THANK JON THOMAS FOR A GREAT
21 MEETING. IT WAS WELL ORGANIZED. IT WAS MISSION
22 CRITICAL, MISSION FOCUSED, AND AN IMPRESSIVE DEBUT.
23 SO WE'RE AWFULLY GLAD YOU'RE HERE.

24 MS. LANSING: I SECOND THAT.

25 (APPLAUSE.)

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: THANK YOU. THE
2 ORGANIZATION WAS ENTIRELY DUE TO ALL OF YOU. SO I'M
3 JUST HERE TO IMPLEMENT. I WOULD NOTE, BEFORE
4 EVERYBODY GETS UP, TO THE EXTENT ANYBODY IS STILL ON
5 CAMPUS AT FIVE, OVER AT THE STEM CELL INSTITUTE,
6 MANY OF YOU WHO HAVE BEEN OVER THERE HAVE SEEN THAT
7 SPECTACULAR CHANDELIER. THEY ARE AT IRV WEISSMAN'S,
8 I GUESS, COMMISSIONING UNVEILING A SECOND PIECE OF
9 ART, WHICH AT THE MOMENT LOOKS LIKE SOMETHING DRAPED
10 OUT OF PHANTOM OF THE OPERA. BUT THEY'RE HAVING A
11 RECEPTION OVER THERE. SO IF YOU ARE AROUND, THEY
12 WOULD LOVE TO HAVE ANY AND ALL OF US WHO WOULD LIKE
13 TO ATTEND.

14 DO I HEAR A MOTION TO ADJOURN? 3:23. WE
15 ARE ADJOURNED.

16 (THE MEETING WAS THEN CONCLUDED AT
17 3:23 P.M.)
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BARRISTERS' REPORTING SERVICE

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BARRISTERS' REPORTING SERVICE

REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED BELOW

STANFORD UNIVERSITY
PAUL BERG HALL, LI KA SHING LEARNING CENTER
290 CAMPUS DRIVE
STANFORD, CALIFORNIA
ON
THURSDAY, AUGUST 25, 2011

WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CSR 7152
BARRISTER'S REPORTING SERVICE
1072 BRISTOL STREET
SUITE 100
COSTA MESA, CALIFORNIA
(714) 444-4100